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Date of Admission.		
1891,	May	HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Director of the Chamberlin Observatory of the University of Denver, University Park, Colo.
1891,	May	HULBURT, LORRAIN SHERMAN, M.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1891,	Apr.	HUSSEY, WILLIAM J., B.Sc.; Astronomer in the Lick Observatory, Mt. Hamilton, Cal.
1896,	Nov.	HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *1216 Cascadilla Place.*
1891,	May	HYDE, EDWARD WYLLYS, C.E.; Professor of Mathematics, University of Cincinnati, Cincinnati, O. *814 Lincoln Avenue, Station D.*
1891,	June	IRELAND, OSCAR BROWN, M.A.; Member of the Actuarial Society of America; Actuary of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 1608.*
1892,	Jan.	JACOBUS, DAVID S., M.E.; Professor of Experimental Mechanics and Engineering Physics, Stevens Institute of Technology, Hoboken, N. J.
1888,	Nov.	JACOBY, HAROLD, Ph.D. (Columbia); Member of the Astronomische Gesellschaft; F.R.A.S.; Adjunct Professor of Astronomy, Columbia University, New York, N. Y.
1893,	Feb.	JAMES, JOHN NELSON, B.A. Halle, Germany, *Karlstrasse 23*[1].
1897,	Apr.	JOFFE, S. A., M.S., Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.
1891,	Mar.	JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.
1899,	Oct.	KASNER, EDWARD, M.A., Ph.D. (Columbia). *Herzberger Chaussee 9.* Göttingen, Germany,
1891,	Dec.	KENNELLY, A. E., D.Sc.; F.R.A.S. *1420 Chestnut Street,* Philadelphia, Pa.
1897,	Aug.	KEPPEL, HERBERT, G., M.A.; Member of the Amsterdam Mathematical Society; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1914 Orrington Avenue.*
1892,	Oct.	KERR, WILLIAM JASPER, D.Sc.; President of the Brigham Young College, Logan, Utah.

Date of Admission.	
1891, Apr.	KERSHNER, JEFFERSON E., M.A., Ph.D. (Yale); Professor of Mathematics, Franklin and Marshall College, Lancaster, Pa.
1897, Aug.	KEYSER, CASSIUS JACKSON, B.Sc., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y.
1891, Dec.	KNISELY, ALEXANDER, B.Sc.; Logansport, Ind.
1894, Nov.	KLEINHEKSEL, JOHN HENRY, M.A.; Professor of Mathematics, Hope College, Holland, Mich. *114 East 9th Street.*
1894, Apr.	* LADUE, POMEROY, B.Sc.; Professor of Mathematics, New York University, New York, N. Y. *University Heights.*
1893, Dec.	LAMBERT, PRESTON ALBERT, M.A.; Assistant Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 S. Center Street.*
1897, Jan.	LANDIS, WILLIAM WEIDMAN, M.A.; Professor of Mathematics, Dickinson College, Carlisle, Pa.
1898, Apr.	LANZA, GAETANO, B.Sc., C. and M.E.; Professor of Theoretical and Applied Mechanics, Massachusetts Institute of Technology, Boston, Mass.
1897, May	LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Instructor in Astronomy, University of Chicago, Chicago, Ill.
1889, Dec.	LEGRAS, GUSTAVE, B.Sc., M.Sc.; Assistant Professor of Mathematics, College of the City of New York, *17 Lexington Avenue*, New York, N. Y.
1892, Feb.	LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; F.R.A.S.; Associate Professor of Astronomy and Geodesy, and Director of the Students' Observatory, University of California, Berkeley, Cal.. *2011 Bancroft Way.*
1891, May	LEWIS, CHARLTON THOMAS, Ph.D. (New York University); Member of the Actuarial Society of America. *34 Nassau Street*, New York, N. Y.
1894, June	LING, GEORGE HERBERT, Ph.D. (Columbia); Instructor in Mathematics, Wesleyan University, Middletown, Conn.
1891, June	LOUD, FRANK HERBERT, M.A. Weymouth, Mass.
1891, Apr.	LOVE, JAMES LEE, M.A.; Instructor in Mathematics and Secretary of the Lawrence Scientific School, Harvard University, Cambridge, Mass. *16 University Hall.*
1894, Oct.	LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipzig); Member of the London Mathematical Society; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society*; Assistant Professor of Mathematics, Princeton University, Princeton, N. J.

Date of Admission	
1896, Nov.	LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Captain, 6th U. S. Artillery, Manila, P. I.
1891, June	LUDWIG, HENRY THOMAS JEFFERSON, M.A., Ph.D.; Professor of Mathematics, Physics, and Astronomy, North Carolina College, Mt. Pleasant, N. C.
1894, Oct.	LYMAN, ELMER A., B.A.; Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 N. Washington Street.*
1891, June	MCCABE, WILLIAM, LL.B., F.I.A.; Corresponding Member of the Institut des Actuaires Français; Member of the Actuarial Society of America. *112–118 King Street, W.*, Toronto, Canada.
1889, Dec.	* MCCLINTOCK, EMORY, M.A., Ph.D. (Wisconsin), LL.D. (Columbia, Yale); EX-PRESIDENT; F.I.A.; Member of the Actuarial Society of America; Member of the London Mathematical Society; Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street*, New York, N. Y.
1891, May	MCDOUGALL, ALEXANDER HIRAM, B.A.; Mathematical Master of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*
1896, Apr.	MCGAW, FREDERICK MILTON, M.A.; Principal of the Cornwall School, Cornwall, Conn.
1897, Dec.	MCKAY, ALEXANDER CHARLES, B.A.; Professor of Mathematics, McMaster University, Toronto, Can.
1895, Nov.	MCKINNEY, THOMAS EMORY, M.A.; Professor of Mathematics and Astronomy, Marietta College, Marietta, O. *617 Wooster Street.*
1891, Apr.	MCMAHON, JAMES, M.A.; Member of the London Mathematical Society; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *110 Ferris Place.*
1891, Apr.	MCNEILL, MALCOLM, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill.
1898, Dec.	* MACAULAY, FRANCIS SOWERBY, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette;* Mathematical Master, St. Paul's School, West Kensington, London, W., England.
1891, May	MACFARLANE, ALEXANDER, M.A., D.Sc. (Edinburgh), LL.D.; Member of the Circolo Matematico di Palermo; Lecturer on Mathematical Physics, Lehigh University, South Bethlehem, Pa. *Gowrie Grove*, Chatham, Ontario, Canada.

Date of Admission.	
1897, Dec.	MACKAY, JOHN STURGEON, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Master in the Edinburgh Academy. *69 Northumberland Street*, Edinburgh, Scotland.
1897, Feb.	MACKINNON, ANNIE LOUISE, M.S., Ph.D.; Professor of Mathematics, Wells College, Aurora, N. Y.
1888, Nov.	MACLAY, JAMES, C.E., Ph.D. (Columbia); Instructor in Mathematics, Columbia University, New York, N. Y.
1897, Jan.	MADDISON, ISABEL, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Secretary to the President and Reader in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1897, Aug.	MALTBIE, WILLIAM HENRY, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, The Woman's College, Baltimore, Md.
1891, Nov.	MANN, CHARLES RIBORG, M.A., Ph.D. (Berlin); Instructor in Physics, University of Chicago, Chicago, Ill.
1893, Apr.	MANNING, GEORGE LINCOLN, M.E. *P. O. Box 508*, Orange, N. J.
1891, Nov.	MANNING, HENRY PARKER, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Pure Mathematics, Brown University, Providence, R. I.
1891, June	MARKLEY, JOSEPH LYBRAND, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *912 Forest Avenue.*
1891, Apr.	MARTIN, ARTEMAS, M.A., Ph.D., LL.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Edinburgh Mathematical Society; Editor of the *Mathematical Magazine* and of the *Mathematical Visitor;* U. S. Coast and Geodetic Survey Office, Washington, D. C. *1534 Columbia Street, N. W.*
1899, Dec.	MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr). *623 North 18th Street*, Philadelphia, Pa.
1893, Feb.	MASCHKE, HEINRICH, Ph.D. (Göttingen); Associate Professor of Mathematics, University of Chicago, Chicago, Ill. *5721 Monroe Avenue.*
1890, May	MASON, JAMES WEIR, M.A.; Member of the Actuarial Society of America; Professor of Pure Mathematics, College of the City of New York, New York, N. Y.

Date of Admission.	
1892, Mar.	MENDIZÁBAL-TAMBORREL JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; F.R.A.S.; Member of the Astronomische Gesellschaft; Captain of Engineer Corps; *Sociedad "Alzate," Palma No. 13*, Mexico, D. F., Mexico.
1891, Apr.	MERRIMAN, MANSFIELD, C.E., Ph.D.; Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa.
1889, June	MESSENGER, HIRAM JOHN, Lit.B., Ph.D.; Member of the Actuarial Society of America; Actuary of the Travelers Insurance Company, Hartford, Conn.
1891, Oct.	METZLER, WILLIAM H., B.A., Ph.D. (Clark); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y.
1891, June	MILLER, BLOOMFIELD JACKSON, Member of the Actuarial Society of America; Mathematician of the Mutual Benefit Life Insurance Company. *752 Broad Street*, Newark, N. J.
1891, May	MILLER, EPHRAIM, M.A., Ph.D.; Professor of Mathematics and Astronomy, and Dean of the School of Arts, University of Kansas, Lawrence, Kan. *1244 Tennessee Street.*
1898, Apr.	MILLER, GEORGE A., Ph.D.; Instructor in Mathematics, Cornell University, Ithaca, N. Y. *115 Cook Street.*
1899, Oct.	MILLER, JOHN ANTHONY, M.A., Ph.D. (Chicago); Professor of Mechanics and Astronomy, University of Indiana, Bloomington, Ind. *334 South Dunn Street.*
1891, May	MOODY, WILLIAM ALBION, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*
1891, May	MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale; Göttingen, honorary); Member of the Circolo Matematico di Palermo; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5538 Washington Avenue.*
1896, May	MORE, LOUIS TRENCHARD, B.Sc., Ph.D. (Johns Hopkins); Adjunct Professor of Physics, University of Nebraska, Lincoln, Neb.
1891, May	MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Editor of the *Bulletin of the American Mathematical Society;* Professor of Pure Mathematics, Haverford College, Haverford, Pa.

Date of Admission.	
1898, Oct.	MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Central High School, Cleveland, O.
1896, Nov.	MURFEE, HOPSON OWEN, B.Sc.
1890, Dec.	MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Cornell University, Ithaca, N. Y.
1891, June	NAGLE, JAMES C., M.A., C.E., M.C.E.; Professor of Civil Engineering, Agricultural and Mechanical College of Texas, College Station, Texas.
1891, June	NELSON, ALFRED BRIERLEY, M.A., Ph.D. (University of Pennsylvania); Professor of Mathematics, Centre College, Danville, Ky. *443 Lexington Street.*
1895, Dec.	NEUFELD, JULIUS L., E.E.; Instructor in Mathematics, Central High School, Philadelphia, Pa. *1905 Venango Street.*
1891, Nov.	NEWCOMB, SIMON, D.Sc., Ph.D., LL.D., D.C.L.; EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Institute of France; Foreign Associate of the Royal Astronomical Society; Editor of the *American Journal of Mathematics;* Associate Editor of *Science;* Professor of Mathematics and Astronomy, Johns Hopkins University; Professor of Mathematics, U. S. Navy, retired. *1620 P Street,* Washington, D. C.
1891, Oct.	NEWSON, HENRY BYRON, M.A., Ph.D.; Associate Professor of Mathematics, University of Kansas, Lawrence, Kan.
1899, Aug.	NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Assistant Professor of Mathematics, Hamilton College, Clinton, N. Y.
1891, June	NICHOLSON, JAMES WILLIAM, M.A., LL.D.; Professor of Mathematics, Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La. *901 Convention Street.*
1891, May	NIPHER, FRANCIS EUGENE, M.A.; Professor of Physics, Washington University, St. Louis, Mo.
1899, Dec.	NOBLE, CHARLES ALBERT, B.S.; Instructor in Mathematics, University of California, Berkeley, Cal. *2727 Bancroft Way.*
1895, Feb.	ODELL, JOHN WILLIAM, B.A.; Fellow in Mathematics, University of Toronto, Toronto, Canada.
1891, Dec.	OLDS, GEORGE DANIEL, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.
1891, Apr.	OSBORNE, GEORGE ABBOTT, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.

Date of Admission.		
1895,	Feb.	OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass.
1894,	Oct.	OSTERBERG, MAX, E. E., M.A. *11 Broadway,* New York, N. Y.
1897,	May	PALMIÉ, ANNA HELENE, B.Ph. (Cornell); Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *2531 Euclid Avenue.*
1894,	Mar.	PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Professor of Physics, Central Manual Training School, Philadelphia, Pa. *17th and Wood Streets.*
1896,	Dec.	PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.
1896,	May	PECK, HENRY ALLEN, M.A., Ph.D. (Strassburg); Member of the Astronomische Gesellschaft; Professor of Astronomy, Syracuse University, Syracuse, N. Y. *307 Waverly Avenue.*
1891,	May	PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipzig); Hollis Professor of Mathematics and Natural Philosophy in Harvard University, Jefferson Physical Laboratory, Harvard University, Cambridge, Mass. *51 Oxford Street.*
1898,	Oct.	PEIRCE, JAMES MILLS, M.A.; Perkins Professor of Astronomy and Mathematics, and Dean of the Faculty of Arts and Sciences, Harvard University, Cambridge, Mass. *4 Kirkland Place.*
1898,	Oct.	PELL, ALEXANDER, Ph.D. (Johns Hopkins); Professor of Mathematics, State University of South Dakota, Vermillion, South Dakota.
1893,	Oct.	PETTEGREW, DAVID LYMAN, General Special Agent of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 75,* Worcester, Mass.
1892,	Oct.	PFISTER, JOSEPH CLEMENT, M.A.; Tutor in Mechanics, Columbia University, New York, N. Y.
1891,	June	PHILBRICK, PHILETUS HARVEY, M.Sc., C.E.; Chief Engineer of the K. C. W. & G. Ry., Lake Charles, La.
1896,	Nov.	PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *209 York Street.*
1894,	Oct.	PIERPONT, JAMES, Ph.D. (Vienna); Professor of Mathematics, Yale University, New Haven, Conn.

Date of Admission.	
1889, Dec.	PIERSON, ISRAEL CORIELL, M.A., Ph.D.; Member of the Actuarial Society of America; Actuary of the Washington Life Insurance Company of New York. *141 Broadway*, New York, N. Y.
1892, Nov.	PLUMLEY, GARDNER LADD, Member of the Actuarial Society of America; Assistant Actuary of the Home Life Insurance Company. *256 Broadway*, New York, N. Y.
1890, Dec.	POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S.; Associate Professor of Astronomy, Johns Hopkins University, Baltimore, Md.
1897, Feb.	PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard) Instructor in Mathematics, Yale University, New Haven Conn. *4 University Place.*
1892, May	PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *142 Hamilton Street.*
1889, Dec.	PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin); Adjunct Professor of Mechanics, Columbia University, New York, N. Y.
1891, June	PURYEAR, CHARLES, B.Sc., M.A., C.E.; Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Texas.
1891, June	PUTNAM, KENDRICK S., M.A.; City Chamberlain, Rome, N. Y.
1894, Mar.	RAND, JOHN HOLMES, M.A.; Professor of Mathematics, Bates College, Lewiston, Me. *28 Frye Street.*
1898, Oct.	RANUM, ARTHUR, B.A.; Professor of Mathematics and Astronomy, University of Washington, Seattle, Washington. *1108 Sixth Avenue.*
1891, Dec.	RAYSON, AMY, B.A.; Joint Principal of School for Girls, New York, N. Y. *176 and 180 W. 75th Street.*
1888, Nov.	REES, JOHN KROM, M.A., E.M., Ph.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Director of the Observatory, Columbia University, New York, N. Y.
1893, Apr.	RICE, CHARLES MOEN, B.A.; Worcester, Mass. *P. O. Box 215.*
1891, Apr.	RICE, JOHN MINOT, B.Sc., Ph.D. (Stevens Institute); Professor of Mathematics, U. S. Navy, retired; Northborough, Mass.

Date of Admission.

1899, Aug. *Richmond, Herbert William, M.A.; Member of the Cambridge Philosophical Society; Fellow and Lecturer of King's College, Cambridge, England.

1891, Oct. Rockwell, Charles Hall. Tarrytown, N. Y.

1891, May Rockwood, Charles Greene, Jr., M.A., Ph.D. (Yale); Professor of Mathematics, Princeton University, Princeton, N. J. *34 Bayard Lane.*

1896, Apr. Roe, Edward Drake, Jr., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung. *1151 College Avenue*, Elmira, N. Y.

1897, Feb. Rothrock, David Andrew, M.A., Ph.D. (Leipzig); Assistant Professor of Mathematics, University of Indiana, Bloomington, Ind.

1898, Aug. Safford, Frederick Hollister, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics and Mathematical Physics, University of Cincinnati, Cincinnati, Ohio.

1897, Dec. Saurel, Paul Louis, B.Sc.; Instructor in Mathematics, College of the City of New York. *17 Lexington Avenue*, New York, N. Y.

1891, Nov. Sayre, Herbert Armistead, B.E., Ph.D. (Johns Hopkins); Professor of Physics, University of Alabama, University, Ala.

1894, Mar. Schlegel, Victor, Ph.D. (Leipzig); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Königliche Höhere Machinenbauschule, Hagen, Germany. *Volmestrasse, 62.*

1898, Aug. Schlesinger, Frank, M.A., Ph.D. (Columbia); Member of the Astronomische Gesellschaft; Observer in charge of the International Latitude Station, Ukiah, Cal.

1892, Feb. Schmiedel, Oscar, B.Sc., M.A.; Professor of Mathematics, Bethany College, Bethany, W. Va.

1895, Mar. Schmitt, Cooper Davis, M.A.; Professor of Mathematics, University of Tennessee, Knoxville, Tenn.

1892, Apr. Schultze, Arthur, Ph.D.; Boy's High School, New York, N. Y.

1899, Feb. Schulz, Waldemar, Ph.D. (Halle); Instructor in German, University of Minnesota, Minneapolis, Minn.

1893, Oct. Schwatt, Isaac J., Ph.D.; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

Date of Admission.	
1891, May	SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1889, June	SEARLE, REV. GEORGE MARY, M.A., Ph.D.; *415 W. 59th Street*, New York, N. Y.
1895, Aug.	SEE, THOMAS JEFFERSON JACKSON, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Mathematics, U. S. Navy, Washington, D. C. *Naval Observatory.*
1899, Aug.	SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.
1892, June	SHACK, FERDINAND, B.Sc., M.A., LL.B. *56 Wall Street*, New York, N. Y.
1891, Apr.	SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.
1894, Mar.	SHAW, JAMES BYRNIE, M.Sc., D.Sc.; Department of Mathematics, Kenyon College, Gambier, Ohio.
1899, Oct.	SINGER, SIMON AUGUSTUS, B.A.; Professor of Mathematics, Capital University, Columbus, Ohio.
1899, Aug.	SKINNER, ERNEST BROWN, B.A.; Assistant Professor of Mathematics, University of Wisconsin, Madison, Wisconsin. *5738 Jackson Avenue*, Chicago, Ill.
1899, Oct.	SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Instructor in Mathematics, University of Chicago, Chicago, Ill. *Faculty Exchange.*
1893, Oct.	SMITH, DAVID EUGENE, Ph.M., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Principal of the State Normal School, Brockport, N. Y.
1898, Apr.	SMITH, EUGENE RANDOLPH, A.B., M.A.; Instructor in Mathematics, Syracuse University, Syracuse, N. Y. *724 Comstock Avenue.*
1891, May	SMITH, OTIS DAVID, M.A., LL.D.; Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala.
1891, Nov.	SMITH, PERCEY FRANKLYN, Ph.D.; Assistant Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *318 Humphrey Street.*
1891, Apr.	SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen); Professor of Mathematics, Tulane University, New Orleans, La.

Date of Admission.

1889, Dec. SNOOK, THOMAS EDWARD, E.M.; Architect and Engineer. *261 Broadway*, New York, N. Y.

1895, Apr. SNYDER, MONROE BENJAMIN, M.A.; Professor of Astronomy and Applied Mathematics, Central High School, Philadelphia, Pa. *2402 North Broad Street.*

1896, Nov. SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *204 University Avenue.*

1892, May SQUIER, GEORGE OWEN, Ph.D. (Johns Hopkins); Lieutenant-Colonel U. S. A. Signal Corps; First Lieutenant, 3d Artillery, U. S. A.; Manager of the *Journal of the U. S. Artillery. Army and Navy Club*, Washington, D. C.

1888, Nov. STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia). *135 Willow Street*, Brooklyn, N. Y.

1899, Aug. STARKWEATHER, GEORGE PRATT, Ph.B., M.E., Ph.D. (Yale); Instructor in Applied Mechanics, Sheffield Scientific School, Yale University, New Haven, Conn. *344 Cedar Street.*

1894, Nov. STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1026 Ayars Court.*

1891, Jan. STEINMETZ, CHARLES PROTEUS, Electrician, General Electric Company, Schenectady, N. Y.

1891, June STEVENS, MOSES COBB, M.A.; Professor of Mathematics, Purdue University, Lafayette, Ind. *11 Waldron Street.*

1891, June ST. JOHN, HOWELL WILLIAM, Ph.B.; Member of the Actuarial Society of America; Corresponding Member of the Institut des Actuaires Français; Actuary of the Ætna Life Insurance Company, Hartford, Conn. *P. O. Box 913.*

1891, May STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics;* Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Charlottesville, Va.

1897, Feb. STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipzig); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.

1895, Dec. STRONG, WENDELL MELVILLE, M.A., Ph.D. (Yale); Tutor in Mathematics, Yale University, New Haven, Conn. *307 Welch Hall.*

1891, May *TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Assistant Professor of Mathematics, Clark University, Worcester, Mass.

Date of Admission.	
1896, Nov.	* TANNER, JOHN HENRY, B.Sc.; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *107 Central Avenue.*
1889, Dec.	TATLOCK, JOHN, JR., M.A.; F.R.A.S.; Assistant Actuary of the Mutual Life Insurance Company of New York. *P. O. Box 194,* New York, N. Y.
1891, Apr.	TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.
1891, May	TAYLOR, THOMAS ULVAN, C.E., M.C.E.; Professor of Applied Mathematics, University of Texas, Austin, Texas.
1899, Oct.	THOMPSON, EDWARD PAYSON, M.A.; Professor of Mathematics and Astronomy, Miami University, Oxford, Ohio.
1891, Apr.	THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *80 University Place.*
1897, Jan.	THORNBURG, CHARLES LEWIS, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *308 Packer Avenue.*
1895, Nov.	TOWNSEND EDGAR JEROME, Ph.B., Ph.M.; Associate Professor of Mathematics, University of Illinois, Champaign, Ill. *Göttingen, Germany.*
1893, Nov.	TURRELL, ISAAC HODGES, Principal of the Fourth District School, Cincinnati, O. *403 Chase Street, North Side.*
1894, Aug.	TYLER, HENRY WALTER, B.Sc., Ph.D. (Erlangen); Professor of Mathematics and Secretary of the Massachusetts Institute of Technology, Boston, Mass.
1897, Dec.	UNDERHILL, MARY, M.Sc. *124 Walker Street,* Cambridge, Mass.
1888, Nov.	VAN AMRINGE, J. HOWARD, M.A., Ph.D., L.H.D., LL.D.; EX-PRESIDENT; Professor of Mathematics and Dean of Columbia College, Columbia University, New York, N. Y. *204 W. 44th Street.*
1891, June	VAN VELZER, CHARLES AMBROSE, B.Sc., Ph.D.; Member of the London Mathematical Society; Professor of Mathematics, University of Wisconsin, Madison, Wis. *134 W. Gorham Street.*
1893, Apr.	VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen); Professor of Mathematics, Wesleyan University, Middletown, Conn.
1891, Apr.	VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.

Date of Admission.	
1890, May	VON NARDROFF, ERNEST ROBERT, E.M. ; Head of the Science Department, Erasmus Hall High School, Brooklyn, N. Y.
1891, Oct.	WAIT, LUCIEN AUGUSTUS, B.A.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *135 East Avenue.*
1891, Apr.	WALDO, CLARENCE ABIATHAR, M.A., Ph.D. ; Head Professor of Mathematics, Purdue University, Lafayette, Ind. *113 S. Ninth Street.*
1898, Dec.	WALKER, BUZZ M., B.Sc., M.Sc.; Professor of Mathematics, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.
1894, Feb.	WALKER, LON CAIN, M.A. ; Assistant Professor of Mathematics, Leland Stanford Junior University, Palo Alto, Cal.
1898, Apr.	WASHBURNE, ALVA COURTENAY, Actuarial Division, Metropolitan Life Insurance Company. *1 Madison Avenue,* New York, N. Y.
1891, Oct.	WEBB, JOHN BURKITT, C.E.; Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J.
1891, May	WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin) ; Assistant Professor of Physics, Clark University, Worcester, Mass.
1891, June	WEEKS, RUFUS WELLS ; Member of the Actuarial Society o America ; Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.
1892, Feb.	WELD, LAENAS GIFFORD, B.Sc., M.A.; Professor of Mathematics and Astronomy, University of Iowa, Iowa City, Ia.
1891, Apr.	WELLS, WEBSTER, B.Sc. ; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1891, May	WENTWORTH, GEORGE ALBERT, M.A. Exeter, N. H.
1896, Sept.	WENTZ, ESTELLA KATE, B.Sc., M.Sc.; Instructor in Mathematics, Manual Training High School, Indianapolis, Ind.
1897, Feb.	WERNICKE, AUGUST LUDWIG PAUL ; Professor of Modern Languages, State College of Kentucky, Lexington, Ky. *107 East Maxwell Street.*
1897, Dec.	* WESTERN, ALFRED EDWARD, M.A. ; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. *36 Lancaster Gate,* London, W., England.
1899, Apr.	WESTFALL, JOHN VAN ETTEN, B.Sc., Ph.D. (Leipzig) ; Instructor in Mathematics, University of Iowa, Iowa City, Ia.

Date of Admission.	
1898, Aug.	WESTLUND, JACOB, Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *218 Mansfield Street.*
1892, Nov.	WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Noyes Professor of Pure Mathematics, Northwestern University, Evanston, Ill. *P. O. Box 244.*
1898, Oct.	WHITEHEAD, ALFRED WORTH, M.A.; Member of the London Mathematical Society; Fellow and Lecturer of Trinity College, Cambridge, England.
1891, June	WHITNEY, MARY WATSON, M.A.; Professor of Astronomy and Director of the Observatory, Vassar College, Poughkeepsie, N. Y.
1897, Dec.	* WHITTAKER, EDMUND TAYLOR, M.A.; Member of the London Mathematical Society; F.R.A.S.; Fellow and Lecturer of Trinity College, Cambridge, England.
1897, Feb.	WHITTEMORE, JAMES KELSEY, B.A., M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *48 Brattle Street.*
1899, Feb.	WILCZYNSKI, ERNEST JULIUS, Ph.D. (Berlin); Instructor in Mathematics, University of California, Berkeley, Cal. *2113 Kittredge Street.*
1892, May	WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics, Pennsylvania State College, State College, Center County, Pa.
1895, May	WILLIAMS, CLARK BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *703 W. South Street.*
1892, May	WILLIAMS, ELLA CORNELIA, M.A. *146 W. 64th Street,* New York, N. Y.
1898, Apr.	WILLIAMS, WILLIAM HILL, M.A.; Chair of Mathematics, Wisconsin State Normal School, Platteville, Wis.
1891, May	WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 641.*
1899, Dec.	WILSON, EDWIN BIDWELL, B.A.; Yale University, New Haven, Conn. *117 West Divinity Hall.*
1897, Jan.	WINSTON, MARY FRANCES, B.A., Ph.D. (Göttingen); Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kansas.

Date of Admission.	
1899, Dec.	WOOD, RUTH GOULDING, B.L.; New Haven, Conn. *1193 Chapel Street.*
1895, Oct.	WOODS, FREDERICK S., B.A., Ph.D. (Göttingen); Assistant Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1891, May	WOODWARD, ROBERT SIMPSON, C.E., Ph.D.; Associate Editor of *Science;* Professor of Mechanics and Mathematical Physics and Dean of the School of Pure Science, Columbia University, New York, N. Y.
1891, May	WORTHEN, THOMAS WILSON DORR, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.
1898, Oct.	WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America. *45 Milk Street, Room 77,* Boston, Mass.
1891, May	YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Assistant Professor of Mathematical Pedagogy, University of Chicago, Chicago, Ill. *5430 Washington Avenue.*
1893, Mar.	YOWELL, EVERETT IRVING, C.E., B.Sc.; Assistant at the Cincinnati Observatory, Cincinnati, O.
1891, June	ZERR, GEORGE B. MCCLELLAN, M.A., Ph.D.; Head of Science Department, Chester High School, Chester, Pa.
1891, Apr.	ZIWET, ALEXANDER, C. E.; Editor of the *Bulletin of the American Mathematical Society;* Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.*

Number of members, January 1, 1900.....337
Number of members, January 1, 1899.....315
Members admitted during the year 1899..... 36
Members withdrawing during the year 1899..... 14

CONSTITUTION.

Article I.

This Society shall be called the American Mathematical Society.

Article II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

Article III.

The officers of the Society shall be a President, a First Vice-President, a Second Vice-President, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

Article IV.

The officers of the Society, each retiring President for one year after retirement, and nine other members, shall constitute a Council, which shall have general charge of the affairs of the Society.

Article V.

1. The officers of the Society and three other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The term of office shall be one year for officers and three years for other members of the Council, and until their successors shall be elected. No member shall be elected as President more than two years in succession. No elected member of the Council, having completed a term of three years shall be re-elected until at least one year shall have intervened.

2. Such vacancies as may exist at any time among the officers shall be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting.

Article VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

BY-LAWS.

I.

For the election of a new member to the Society it shall be necessary that a proposition in due form signed by two members of the Society shall be presented at a meeting of the Council, and that at a subsequent meeting of the Council the person named in such proposition shall receive the favorable ballots of a majority of the members present.

II.

Each new member shall pay to the Society an initiation fee of five dollars.

III.

The annual dues shall be five dollars, payable on the 1st of January. Each new member shall pay in proportion to the unexpired fraction of the year at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

IV.

On the payment of fifty dollars in one sum, exclusive of initiation fee, any member may become a life member and shall thereafter be exempt from all annual dues.

V.

The Regular Meetings shall be held at 10.30* A.M., on the last Saturday of February, April, and October, unless otherwise ordered by the Council. The place of meeting shall be designated by the Council. The Annual Meeting shall be held on such day as the Council may decide upon between the 26th and 31st of December inclusive.†

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* The Council has recently directed that the morning sessions shall open at 11 o'clock, and the afternoon sessions at 2 o'clock.

†A Summer Meeting has also been held for several years.

VI.

Notice of the time and place of each meeting shall be sent by the Secretary to such members of the Society as may request it.*

VII.

The order of business at the meetings of the Society shall be as follows:

1. Reading of the minutes.
2. Recommendations and reports.
3. Elections.
4. Miscellaneous business.
5. Presentation and discussion of papers previously announced.
6. Any other scientific communications.

VIII.

No question relative to administration shall be considered at any meeting except the Annual Meeting, without the recommendation of the Council.

IX.

1 The President shall convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

X.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

XI.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2 The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. The three members of the committee appointed in 1899 shall serve respectively until 1902, 1903, and 1904. In and after 1902, annually at the February meeting, the Council shall appoint one member to serve for three years. Members of the committee shall be eligible to re-appointment. Vacancies in the committee shall be filled by the Council.

* Notice is actually sent to all members of the Society.

3. The editorial committee shall have power to elect one of its members as editor in chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor in chief, the Council shall designate one of the members of the committee to act as editor in chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

XII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting next succeeding his first election as President of the Society.

XIII.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each sectional meeting of such members of the Society as may be present; and the Council shall have the right to withdraw such authorization.

XIV.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

XV.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

ANNUAL REPORTS.

REPORT OF THE TREASURER FOR THE YEAR 1899.

Receipts.

	Balance from 1898, cash	$1,239 88	
	Balance from 1898, life membership fund	150 00	
			$1,389 88
1	Annual payment for 1896		5 00
6	Annual payments for 1897		30 00
30	Annual payments for 1898		150 00
241	Annual payments for 1899		1,205 00
2	Annual payments for 1900		10 00
1	Payment for fractional part of 1898		83
24	Payments for fractional part of 1899		41 19
1	Initiation fee for 1898		5 00
24	Initiation fees for 1899		120 00
1	Initiation fee for 1900		5 00
9	Life membership fees		450 00
	Sales of reprints		7 70
	Sales of Bulletin through The Macmillan Company		147 82
	Sales of Bulletin through the Secretary		12 83
	Royalties on Congress Papers		6 40
	Overpaid by members		69
3	Subscriptions to Transactions, 1900, at $5.00		15 00
13	Members' subscriptions to Transactions, 1900, at $3.75		48 75
2	Members' subscriptions to Transactions, 1901, at $3.75		7 50
	Contribution of Cornell University toward Transactions		100 00
	Interest on balance to June 30, 1899		5 77
			$3,764 36

Disbursements.

Expenses of the Secretary's Office		$156 14
Expenses of the Treasurer's Office		49 48
Publication of the Bulletin, 10 numbers		1,063 33
Publication of the List of Members		50 62
Expenses of the Chicago Section		26 89
Expenses of the Committee of Publication		105 39
Expenses of the Editorial Board of the Transactions		153 22
Balance, Dec. 12, 1899. cash	$1,559 29	
Balance, Dec. 12, 1899, life membership fund	600 00	
		$2,159 29
		$3,764 36

Harold Jacoby,
Treasurer.

New York, December 15, 1899.

REPORT OF THE AUDITING COMMITTEE.

The undersigned, a committee appointed by the Council of the AMERICAN MATHEMATICAL SOCIETY to audit the accounts of the Treasurer for the current year, beg to report as follows :

We have examined the statement of receipts, including dues, initiation fees, life membership commutations, and sales of publications, and find the same to be correct. We have examined the statement of the disbursements, compared it with the vouchers, and find that they agree.

The balance reported by the Fifth Avenue Trust Company, December 15, 1899, namely, $2,159.29, agrees with the Treasurer's report.

T. W. EDMONDSON,
GUSTAVE LEGRAS,
WM. S. DENNETT,
Auditing Committee.

NEW YORK, December 19, 1899.

REPORT OF THE LIBRARIAN FOR THE YEAR 1899.

The following periodical publications have been added to the Library of the American Mathematical Society during the year 1899 :

Amsterdam, *Nieuw Archief voor Wiskunde*, Vol. 4, Nos. 1, 3.

Amsterdam, *Revue Semestrielle des Publications Mathématiques*, Vol. 7, No. 1.

Amsterdam, *Wiskundige Opgaven*, Vol. 7, No. 6.

Baltimore, *American Journal of Mathematics*, Vol. 21, Nos. 1–4 ; Index to Vols. 11–21.

Berlin, *Fortschritte der Mathematik*, Vol. 27, No. 3 ; Vol. 28, Nos. 1, 2.

Boston, *Technology Quarterly*, Vol. 11, No. 4 ; Vol. 12, Nos. 1–3.

Cambridge Philosophical Society, *Proceedings*, Vol. 10, parts 2, 3 ; *Transactions*, Vol. 17, part 3.

Charlottesville, Va., *Annals of Mathematics*, 1st series, Vol. 12, No. 6 ; 2d series, Vol. 1, No. 1.

Chicago, *Astro-Physical Journal*, Vol. 8, No. 5 ; Vol. 9, Nos. 1–4 ; Vol. 10, Nos. 1–4.

Christiania, Videnskabs-Selskabet, *Skrifter*, 12 parts ; *Forhandlinger*, 6 parts, and *Oversigt*, 1898.

Coimbra, *Jornal des Sciencias Mathematicas e Astronomicas*, Vol. 13, No. 5.

Edinburgh Mathematical Society, *Proceedings*, Vol. 17.

Fort Monroe, Va., *Journal of the U. S. Artillery*, Vol. 10, Nos. 2, 3 ; Vol. 11, Nos. 1–3 ; Vol. 12, Nos. 1–3.

Ghent, *Mathesis*, Vol. 9, Nos. 1–11.

Göttingen, *Nachrichten Math. Phys. Klasse*, 1898, heft 4 ; 1899, heft 1 ; *Geschäftliche Mittheilungen*, 1898, heft 2 ; 1899, heft 1, 3.

Halifax, Nova Scotian Institute of Science, *Proceedings and Transactions*, Vol. 9, part 4.

Ithaca, N. Y., *Journal of Physical Chemistry*, Vol. 2, No. 9 ; Vol. 3, Nos. 1–8.

Kasan, Société Physico-Mathématique, *Bulletin*, Vol. 8, Nos. 2–4 ; Vol. 9, Nos. 1, 2.

Kharkov, Société Mathématique, *Communications*, Vol. 6, Nos. 4–6.

Leghorn, *Periodico di Matematica*, Vol. 14, Nos. 5, 6 ; Vol. 15, Nos. 1–3 ; Supplemento, Vol. 2, Nos. 5–9 ; Vol. 3, No. 1.

Leipzig, *Mathematische Annalen*, Vol. 51, Nos. 3, 4 ; Vol. 52, Nos. 1–3.

Leipzig, *Zeitschrift fur Mathematik und Physik*, Vol. 43, No. 1 ; Vol. 44, Nos. 1–3, 5, 6.

Liege, Société Royal des Sciences, *Mémoires*, 3d series, Vol. 1.

London, *Educational Times*, Vol. 52, Nos. 1–12.

London, *The Mathematical Gazette*, Nos. 16, 17, 18.

London Mathematical Society, *Proceedings*, Vol 29, Nos. 655–690.

London, Royal Society, *Proceedings*, Nos. 405–421.

Madrid, Archivo de Mathematicas, Vol. 2, Nos. 5–8.

Manchester Literary and Philosophical Society, *Memoirs and Proceedings*, Vol. 42, No. 5 ; Vol. 43, Nos. 1–4.

Mexico, Sociedad Cientifica Antonia Alzate, *Memorias y Rivista*, Vol. 12, Nos. 1–12.

Milan, *Annali di Matematica*, third series, Vol. 2, Nos. 1–4 ; Vol. 3, Nos. 1, 2.

New York, Actuarial Society of America, *Reports*, Vols. 4, 5 ; Vol. 6, No. 21.

New York, American Mathematical Society, *Bulletin*, Vol. 5.

New York, *Science*, Vols. 9–10.

Palermo, *Rendiconti del Circolo Matematico*, Vol. 12, No. 6 ; Vol. 13, Nos. 1–6.

Paris, *Journal de Mathématiques*, Vol. 5, Nos. 1–3.

Paris, *L'Intermédiaire des Mathématiciens*, Vol. 5, No. 12 ; Vol. 6, Nos. 1–11.

Paris, Société Mathématique de France, *Bulletin*, Vol. 26, Nos. 1–10; Vol. 27, No. 3.

Philadelphia, American Philosophical Society, *Proceedings*, Nos. 157, 158; *Transactions*, Vol. 20, No. 1.

San Francisco, Astronomical Society of the Pacific, *Publications*, Nos. 65–70.

Springfield, Mo., *American Mathematical Monthly*, Vol. 6, Nos. 1–11.

St. Louis, Academy of Sciences, *Transactions*, Vol. 8, Nos. 7–9, 11, 12; Vol. 9, Nos. 1–3, 5–8.

Stockholm, *Acta Mathematica*, Vol. 22, Nos. 3, 4.

Stockholm, *Bibliotheca Mathematica*, 1899, Nos. 1–4.

Stuttgart, *Mathematische-naturwissenschaftliche Mitteilungen*, 2d series, Vol. 1, Nos. 1–3.

Toulouse, *Annales de la Faculté des Sciences*, 2d series, Vol. 1, Nos. 1–3.

Turin, *Revue de Mathématique*, Vol. 6, Nos. 3, 4; *Formulaire de Mathématique*, Vol. 2, No. 3.

Vienna, *Monatshefte fur Mathematik und Physik*, Vol. 10, Nos. 1–4.

Washington, U. S. Geological Survey, *Annual Reports*, 18th year, Nos. 1–4.

Warsaw, Society of Naturalists, *Comptes Rendus des Assemblées*, year 8.

Warsaw, Mathematico-Physical Society, *Bulletin*, Vol. 10.

POMEROY LADUE,
Librarian.

NEW YORK, December 28, 1899.

AMERICAN MATHEMATICAL SOCIETY.

Organized as the New York Mathematical Society, November, 1888.
Reorganized as the American Mathematical Society, July, 1894.

ANNUAL REGISTER.

JANUARY, 1901.

NEW YORK:
PUBLISHED BY THE SOCIETY.
501 WEST 116TH STREET,
1901.

Press of
The New Era Printing Company,
Lancaster, Pa.

DIRECTORY.

Offices of the Secretary, Treasurer, and Committee of Publication,
501 West 116th Street, New York, N. Y.

Office of the Librarian,
New York University, University Heights, New York, N. Y.

Secretary of the Chicago Section,
THOMAS F. HOLGATE, *617 Hamline Street, Evanston, Ill.*

Changes of address should be immediately communicated to the Secretary for entry in the mailing lists of the Society.

Membership dues should be remitted to Dr. W. S. DENNETT, Treasurer, 501 West 116th Street, New York, N. Y., by draft or money order, drawn payable to the AMERICAN MATHEMATICAL SOCIETY.

The following dates have been fixed for the meetings of the Society during the year 1901 :

Saturday, February 23,	Saturday, April 27,
Saturday, October 26,	Friday, December 27.

The meeting of December 27 will be the Annual Meeting of the Society for the election of officers.

Meetings of the Chicago Section will be held on Saturday, April 6, and during the Christmas holidays.

Papers intended for presentation at any meeting or sectional meeting of the Society should be sent to the Secretary or Secretary of the Section in advance of the meeting for submission to the Programme Committee, and should be accompanied by an abstract, suitable for publication in the BULLETIN, and a statement of the time required for presentation. Papers in form unprepared for publication will be referred to on the programme as preliminary communications or reports.

PUBLICATIONS.

Transactions of the American Mathematical Society.

EDITED BY

ELIAKIM HASTINGS MOORE,

ERNEST WILLIAM BROWN, THOMAS SCOTT FISKE.

Published quarterly by the Society with the coöperation of

HARVARD UNIVERSITY, NORTHWESTERN UNIVERSITY,
YALE UNIVERSITY, CORNELL UNIVERSITY,
PRINCETON UNIVERSITY, THE UNIVERSITY OF CALIFORNIA,
COLUMBIA UNIVERSITY, BRYN MAWR COLLEGE,
HAVERFORD COLLEGE, THE UNIVERSITY OF CHICAGO.

The TRANSACTIONS is devoted primarily to research in pure and applied mathematics, and is the official organ of the Society for the publication of important original papers read before it. The first number appeared in January, 1900.

Publication Agents. The Macmillan Company, 66 Fifth Avenue, New York, N. Y. Subscription price, to members of the Society $3.75 per annum; to non-members $5.00 per annum.

Manuscripts for publication in the TRANSACTIONS should be sent to one of the members of the Editorial Board. Subscriptions and orders should be sent to the AMERICAN MATHEMATICAL SOCIETY, 501 West 116th Street, New York, N. Y.

PUBLICATIONS.

Bulletin

of the

American Mathematical Society.

CONTINUATION OF THE BULLETIN OF THE NEW YORK MATHEMATICAL SOCIETY.

A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE.

EDITED BY

F. N. COLE, E. O. LOVETT, ALEXANDER ZIWET, F. MORLEY, C. L. BOUTON.

The BULLETIN contains a large number of critical reviews of mathematical treatises and text-books, a complete monthly list of new mathematical publications, notes on current events in the mathematical world, addresses before mathematical societies, reports on progress in various branches of the science, reports of the meetings of the Society and of other mathematical societies and congresses, and many shorter original articles.

Published for the Society by The Macmillan Company, 66 Fifth Avenue, New York, N. Y. Issued monthly, except August and September. Sent free to members of the Society. Subscription price to non-members $5.00. Members of the Society are entitled to receive back volumes to complete their sets at $4.00 per volume.

Books for review and manuscripts intended for publication in the BULLETIN should be sent to one of the members of the Committee of Publication. Subscriptions to the BULLETIN and orders for back numbers should be addressed to The Macmillan Company.

PUBLICATIONS.

Published Papers. Vol. I.

MATHEMATICAL PAPERS READ AT THE INTERNATIONAL MATHEMATICAL CONGRESS HELD IN CONNECTION WITH THE WORLD'S COLUMBIAN EXPOSITION, CHICAGO, 1893.

EDITED BY THE COMMITTEE OF THE CONGRESS:

E. HASTINGS MOORE, OSKAR BOLZA, HEINRICH MASCHKE, HENRY S. WHITE.

Containing papers by Bolza, Burkhardt, Capelli, Cole, Dyck, Echols, Eddy, Fricke, Halsted, Heffter, Hermite, Hilbert, Hurwitz, Klein, Krause, Lemoine, Lerch, Macfarlane, Martin, Maschke, Meyer, Minkowski, Moore, Netto, Noether, D'Ocagne, Paladini, de Perott, Pervouchine, Pincherle, Pringsheim, Sawin, Schlegel, Schoenflies, Stringham, Study, Taber, Weber, Weyr.

Published for the Society by THE MACMILLAN COMPANY, 1896. 8vo, pp. 411. Price, $4.00; to members of the Society, $3.00.

OFFICERS PAST AND PRESENT.

PRESIDENT.

J. H. Van Amringe,	1888–1890,	Simon Newcomb,	1896–1898,
Emory McClintock,	1890–1894,	R. S. Woodward,	1898–1900,
G. W. Hill,	1894–1896,	Eliakim H. Moore,	1900– .

VICE-PRESIDENTS.

Emory McClintock,	1889–1890,	Hubert A. Newton,	1894–1896,
J. K. Rees,	1890–1891,	R. S. Woodward,	1896–1898,
Henry B. Fine,	1891–1893,	Eliakim H. Moore,	1897–1900,
G. W. Hill,	1893–1894,	Thomas S. Fiske,	1898– ,

Henry S. White, 1900– .

SECRETARY.

Thomas S. Fiske,	1888–1895,	F. N. Cole,	1895– .

TREASURER.

Harold Jacoby,	1891–1894,	Harold Jacoby,	1896–1899,
R. S. Woodward,	1894–1896,	W. S. Dennett,	1899– .

LIBRARIAN.

D. A. Murray,	1892–1893,	Edward L. Stabler,	1894–1895,
Gustav Legras,	1893–1894,	Pomeroy Ladue,	1895– .

COMMITTEE OF PUBLICATION.

Thomas S. Fiske,	1891–1899,	Frank Morley,	1894–1898,
Harold Jacoby,	1891–1893,	F. N. Cole,	1898– ,
Alexander Ziwet,	1893– ,	Frank Morley,	1899– .

MEMBERS OF THE COUNCIL.

OFFICERS.

ELIAKIM H. MOORE, *President.*

THOMAS S. FISKE, } *Vice-Presidents.*
HENRY S. WHITE, }

F. N. COLE, *Secretary.*

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POMEROY LADUE, *Librarian.*

F. N. COLE, }
ALEXANDER ZIWET, } *Committee of Publication.*
FRANK MORLEY, }

PERMANENT MEMBERS.

J. H. VAN AMRINGE, EMORY MCCLINTOCK, G. W. HILL,
SIMON NEWCOMB, R. S. WOODWARD.

OTHER MEMBERS.

To Serve until December, 1901,

MAXIME BÔCHER, JAMES PIERPONT, CHARLOTTE A. SCOTT.

To Serve until December, 1902,

OSKAR BOLZA, E. W. HYDE, L. A. WAIT.

To Serve until December, 1903,

E. W. BROWN, H. B. FINE, T. F. HOLGATE, W. F. OSGOOD.

MEMBERS OF THE SOCIETY.

JANUARY 1, 1901.

Date of Admission. Life members are designated by *.

1892, Nov. ABBE, CLEVELAND, B.Sc., M.A., Ph.D., LL.D.; Member of the National Academy of Sciences; F.R.A.S.; Member of the Astronomische Gesellschaft; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Monthly Weather Review;* Professor of Meteorology, U. S. Weather Bureau; Professor of Meteorology, Columbian University, Washington, D. C.; Lecturer in Meteorology, Johns Hopkins University, Baltimore, Md. *U. S. Weather Bureau,* Washington, D. C.

1891, Nov. ALEY, ROBERT JUDSON, M.A., Ph.D. (Pennsylvania); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Indiana, Bloomington, Ind. *203 Forest Place.*

1897, Dec. ALLEN, JOSEPH, M.A.; Instructor in Mathematics, College of the City of New York. *130 East 27th Street,* New York, N. Y.

1891, June BAKER, ALFRED, M.A.; Member of the Société Mathématique de France; Professor of Mathematics, University of Toronto, Toronto, Canada.

1891, Feb. BAKER, ARTHUR LATHAM, C.E., Ph.D.; Professor of Mathematics, University of Rochester, Rochester, N. Y. *28 Strathallan Park.*

1898, Feb. BAKER, HENRY FREDERICK, M.A.; F.R.S.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; Fellow and Lecturer of St. John's College, Cambridge, England. *4 Belvoir Terrace, Trumpington Road.*

1891, Apr. BAKER, MARCUS, M.A.; Cartographer, U. S. Geological Survey, Washington, D. C.

1894, Oct. BARNUM, CHARLOTTE CYNTHIA, B.A., Ph.D. (Yale). *1828 Mt. Vernon Street,* Philadelphia, Pa.

1892, Apr. BARTON, SAMUEL MARX, B.A., Ph.D.; Professor of Mathematics, University of the South, Sewanee, Tenn.

Date of Admission.		
1891,	Apr.	BASS, EDGAR WALES, Graduate of the U. S. Military Academy; Colonel U. S. Army, retired. *524 Fifth Avenue*, New York, N. Y.
1900,	Dec.	BAUER, GEORGE NEANDER, B.Sc., M.Sc., Ph.D. (Columbia); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.
1899,	Dec.	BEEBE, WILLIAM, M.A.; Professor of Mathematics, Yale University, New Haven, Conn. *262 Bradley Street.*
1891,	Apr.	BEMAN, WOOSTER WOODRUFF, M.A.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *813 East Kingsley Street.*
1897,	Dec.	BENNER, HENRY, M.Sc., Ph.D. (Erlangen); Professor of Mathematics, Albion College, Albion, Mich.
1900,	Dec.	BENTON, JOHN ROBERT, B.A., Ph.D. (Göttingen); Instructor in Mathematics, Princeton University, Princeton, N. J. *13 Bank Street.*
1897,	Feb.	* BERRY, ARTHUR, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; F.R.A.S.; Fellow and Assistant Tutor in Mathematics, King's College, Cambridge, England.
1891,	Dec.	BLAKE, EDWIN MORTIMER, E.M., Ph.D. (Columbia); Member of the Société Mathématique de France; Instructor in Mathematics, University of California, Berkeley, Cal. *1910 Addison Street.*
1900,	Dec.	BLICHFELDT, HANS FREDERIK, M.A., Ph.D. (Leipsic); Instructor in Mathematics, Leland Stanford University, Cal.
1900,	Dec.	BLISS, GILBERT AMES, Ph.D. (Chicago); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.
1892,	Apr.	BÔCHER, MAXIME, B.A., Ph.D. (Göttingen); Assistant Professor of Mathematics, Harvard University, Cambridge, Mass.
1899,	Oct.	BOGARTE, MARTIN EUGENE, M.A.; Professor of Mathematics, Northern Indiana Normal School, Valparaiso, Ind. *College Avenue and Locust Street.*
1891,	Nov.	BOLZA, OSKAR, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Chicago, Chicago, Ill.
1900,	Feb.	BOSWORTH, ANNE LUCY, B.Sc., Ph.D. (Göttingen); Professor of Mathematics, Rhode Island College, Kingston, R. I.

Date of Admission.	
1898, Dec.	BOUTON, CHARLES LEONARD, M.Sc., M.A., Ph.D. (Leipsic); Instructor in Mathematics, Harvard University, Cambridge, Mass. *Craigie Hall, 503.*
1900, Dec.	BOWDEN, JOSEPH, B.A., Ph.D. (Yale); Professor of Mathematics, Adelphi College, Brooklyn, N. Y. *362 Lafayette Ave.*
1891, June	BOWSER, EDWARD ALBERT, C.E., LL.D.; Professor of Mathematics, Rutgers College, New Brunswick, N. J.
1891, June	BROOKS, JOHN MILTON, M.A.; Instructor in Mathematics, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 71.*
1893, Dec.	BROWN, EDWARD LEROY, M.A.; Principal of the North Side High School, Denver, Col. *3030 Homer Boulevard, Station B.*
1892, Feb.	*BROWN, ERNEST WILLIAM, M.A., Sc.D. (Cambridge); F.R.S.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; F.R.A.S.; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Haverford College, Haverford, Pa.
1900, Oct.	BROWN, GEORGE LINCOLN, B.Sc., M.Sc., Ph.D. (Chicago); Professor of Mathematics and Astronomy, South Dakota Agricultural College, Brookings, S. Dak.
1899, Aug.	*BULLARD, WARREN GARDNER, B.A., Ph.D. (Clark); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Syracuse University, Syracuse, N. Y. *712 Comstock Avenue.*
1891, June	BULLIS, ABRAM ROGERS, B.Sc., B.C.E. Macedon, Wayne County, N. Y.
1891, Apr.	BYERLY, WILLIAM ELWOOD, M.A., Ph.D. (Harvard); Editor of the *Annals of Mathematics;* Professor of Mathematics, Harvard University, Cambridge, Mass. *39 Hammond Street.*
1891, June	CAIN, WILLIAM, C.E., M.A.; Professor of Mathematics, University of North Carolina, Chapel Hill, N. C.
1899, Apr.	CAJORI, FLORIAN, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Colorado College, Colorado Springs, Colo. *1119 Wood Avenue.*
1900, Dec.	CAMPBELL, DONALD FRANCIS, Ph.D. (Harvard); Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill. *3344 Dearborn Street.*

Date of Admission.	
1897, Oct.	CAPRON, PAUL, M.A.; Staten Island Academy, St. George, New Brighton, N. Y.
1896, Apr.	CHACE, ARNOLD BUFFUM, M.A., D.Sc. (Brown); Valley Falls, R. I.
1891, May	CHANDLER, CHARLES HENRY, M.A.; Professor of Mathematics, Ripon College, Ripon, Wis.
1891, Nov.	CHAPMAN, CHARLES HIRAM, B.A., Ph.D. (Johns Hopkins). *433 Holladay Avenue*, Portland, Oregon.
1895, Nov.	CHESSIN, ALEXANDER S., M.A., Ph.D., C.E.; "*The Wollaston,*" *96th Street and Boulevard*, New York, N. Y.
1895, Nov.	CHITTENDEN, J. BRACE, B.Sc., M.A., Ph.D. (Königsberg); Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y.
1891, Apr.	CLARK, JOHN EMORY, M.A.; Professor of Mathematics, Yale University, New Haven, Conn. *445 Orange Street.*
1900, Dec.	CLARKE, JOHN EASTMAN, B.A., Ph.D. (Boston University); Principal of the Gilbert School, Winsted, Conn.
1896, Sept.	CLUTZ, FRANK HOLLINGER, B.A., Ph.D. (Johns Hopkins); Civil Engineer, Union Pacific Railroad, Kansas City, Mo.
1893, Feb.	COHEN, ABRAHAM, B.A., Ph.D. (Johns Hopkins); Associate in Mathematics, Johns Hopkins University, Baltimore, Md.
1891, Apr.	COLE, FRANK NELSON, B.A., Ph.D. (Harvard); Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.
1899, Dec.	COLLINS, JOSEPH VICTOR, Ph.B., Ph.D. (Wooster); Teacher of Mathematics, State Normal School, Stevens Point, Wis. *217 Division Street.*
1898, Feb.	COMSTOCK, ELTING HOUGHTALING, B.Sc.; Instructor in Mathematics, Blaine High School, West Superior, Wis. *1502 Belknap Street.*
1892, Oct.	CONANT, LEVI LEONARD, M.A., Ph.D.; Editor of the *Journal of the Worcester Polytechnic Institute;* Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass.
1900, Dec.	CONOSCENTE, EUPLIO, B.Sc., Math.D. (Palermo); Member of the Circolo Matematico di Palermo. *38 Mulberry Street, New York, N. Y.*
1900, June	COOLIDGE, JULIAN LOWELL, B.A., B.Sc.; Instructor in Mathematics, Harvard University, Cambridge, Mass.
1900, Dec.	CRATHORNE, ARTHUR, B.A.; Instructor in Mathematics, University of Wisconsin, Madison, Wis.

Date of Admission.

1891, Apr. CRAWLEY, EDWIN SCHOFIELD, B.Sc., Ph.D.; Thomas A. Scott Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

1891, Dec. CUNNINGHAM, SUSAN J., Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa.

1900, Dec. CURJEL, H.W., M.A.; Birkdale, Southport, Lancashire, England.

1900, Oct. DAVIS, CHARLES HENRY, C.E.; Consulting Engineer. *99 Cedar Street*, New York, N. Y.

1891, Apr. DAVIS, ELLERY WILLIAMS, B.Sc., Ph.D. (Johns Hopkins); Professor of Mathematics, University of Nebraska, Lincoln, Neb.

1891, Oct. DAVIS, JOHN WOODBRIDGE, C.E., Ph.D. *523 W. 173d Street*, New York, N. Y.

1891, Apr. DAVIS, NATHANIEL FRENCH, M.A. LL.D.; Professor of Pure Mathematics, Brown University, Providence, R. I. *159 Brown Street.*

1900, Dec. DEFOE, LUTHER MARION; Assistant Professor of Mathematics, University of Missouri, Columbia, Mo.

1891, May DELONG, IRA MITCHELL, M.A.; Professor of Mathematics, University of Colorado, Boulder, Colo. *1305 12th Street.*

1895, Jan. DELURY, ALFRED TENNYSON, B.A.; Lecturer in Mathematics, University of Toronto, Toronto, Can.

1892, Jan. DENNETT, WILLIAM SAWYER, B.A., M.D. *8 E. 49th Street*, New York, N. Y.

1896, Nov. DICKSON, LEONARD EUGENE, B.Sc., M.A., Ph.D. (Chicago); Member of the London Mathematical Society; Assistant Professor of Mathematics, University of Chicago, Chicago, Ill.

1897, Apr. DOWLING, LINNÆUS WAYLAND, Ph.D. (Clark); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *University Heights.*

1891, Apr. DURELL, FLETCHER, B.A., Ph.D.; Master in Mathematics, Lawrenceville School, Lawrenceville, N. J.

1891, Apr. DURFEE, WILLIAM PITT, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the Faculty, Hobart College, Geneva, N. Y. *639 Main Street.*

1900, Dec. EASTON, BURTON SCOTT, B.Sc.; Fellow in Mathematics, University of Pennsylvania, Philadelphia, Pa. *224 South 43d Street.*

1891, Apr. ECHOLS, WILLIAM HOLDING, B.Sc.; Professor of Mathematics, University of Virginia, Charlottesville, Va.

Date of Admission.

1891, Apr. EDDY, HENRY TURNER, M.A., C.E., Ph.D., LL.D.; Professor of Engineering and Mechanics, University of Minnesota, Minneapolis, Minn. *916 Sixth Street, S. E.*

1896, Dec. EDMONDSON, THOMAS WILLIAM, B.A., Ph.D. (Clark); Assistant Professor of Physics, New York University, *University Heights*, New York, N. Y.

1897, Feb. EIESLAND, JOHN, B.Ph., Ph.D. (Johns Hopkins); Professor of Mathematics, Thiel College, Greenville, Pa.

1894, June EIMBECK, WILLIAM ; Assistant in the U. S. Coast and Geodetic Survey, Washington, D. C.

1900, Dec. EISENHART, LUTHER PFAHLER, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Princeton University, Princeton, N. J. *13 Bank Street.*

1898, Feb. *ELLIOTT, EDWIN BAILEY, M.A.; F.R.S.; Member of the London Mathematical Society ; F.R.A.S.; Waynflete Professor of Pure Mathematics and Fellow of Magdalen College, Oxford, England. *4 Bardwell Road.*

1891, May ELY, ACHSAH MOUNT, B.A.; Professor of Mathematics, Vassar College, Poughkeepsie, N. Y.

1896, Nov. EMCH, ARNOLD, M.Sc., Ph.D. (Kansas) ; Assistant Professor of Pure and Applied Mathematics, University of Colorado, Boulder, Col.

1898, Apr. ENGBERG, CARL CHRISTIAN, B.Sc., M.A., Ph.D.(Nebraska); Instructor in Mathematics, University of Nebraska, Lincoln, Neb.

1892, Mar. ENGLER, EDMUND ARTHUR, M.A., Ph.D.; Professor of Mathematics and Descriptive Geometry and Dean of the School of Engineering, Washington University. St. Louis, Mo.

1898, Oct. ESCOTT, EDWARD BRIND, B.Sc., M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *918 South State Street.*

1891, May ESTY, WILLIAM COLE, LL.D.; Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass.

1896, Jan. EVANS, HENRY BROWN, M.E.; Instructor in Mathematics and Astronomy, University of Pennsylvania, Philadelphia, Pa. *Flower Astronomical Observatory*, Upper Darby, Pa.

1899, Feb. FAUGHT, JOHN BROOKIE, M.A., Ph.D.; Professor of Mathematics, Northern Michigan State Normal School, Marquette, Mich.

1900, June FIELD, PETER, M.S.; Professor of Mathematics and Astronomy, Carthage College, Carthage, Ill.

Date of Admission.

1891, May | FIELDS, JOHN CHARLES, Ph.D. (Johns Hopkins); Member of the Société Mathématique de France. *10 Burlington Street*, Hamilton, Canada.

1891, May | FINE, HENRY BURCHARD, M.A., Ph.D. (Leipsic); Professor of Mathematics, Princeton University, Princeton, New Jersey.

1891, June | FINKEL, BENJAMIN FRANKLIN, M.A., M.Sc.; Member of the London Mathematical Society; Editor of the *American Mathematical Monthly;* Professor of Mathematics and Physics, Drury College, Springfield, Mo. *1227 Clay Street.*

1899, Feb. | FISHBURNE, EDWARD BELL, JR., Ph.B., M.A.; President of Hoye Military Academy, Blackstone, Va.

1891, Oct. | FISHER, GEORGE EGBERT, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

1895, Jan. | FISHER, IRVING, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. *Santa Barbara, Cal.*

1888, Nov. | FISKE, THOMAS SCOTT, M.A., Ph.D. (Columbia); Member of the London Mathematical Society; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.

1894, Oct. | FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C.

1900, Apr. | FORD, ROBERT DALE, B.Sc., M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y.

1899, Aug. | FORD, WALTER B., M.A.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich.

1899, Dec. | FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin, Victoria), LL.D; F.R.S.; Member of the London Mathematical Society; Member of Cambridge Philosophical Society; F.R.A.S.; Sadlerian Professor of Pure Mathematics and Fellow of Trinity College, Cambridge, England.

1893, Dec. | FRANKLAND, FREDERICK WILLIAM, F.I.A.; Member of the Actuarial Society of America; Associate Actuary of the New York Life Insurance Company. *346 Broadway*, New York, N. Y.

1892, Dec. | FRANKLIN, FABIAN, Ph.B., Ph.D. (Johns Hopkins); Member of the London Mathematical Society. *1507 Park Avenue*, Baltimore, Md.

Date of Admission.

1895, Jan. FREEDMAN, WILLIAM HORATIO, C.E., E.E.; Professor of Electrical Engineering, University of Vermont, Burlinglington, Vt.

1897, Mar. FREELAND, WILLIAM, B.A. *27 West 44th Street*, New York, N. Y.

1895, Nov. FRIZELL, ARTHUR BOWES, B.A., M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *1200 Massachusetts Avenue.*

1892, Oct. GABLE, GEORGE DANIEL, M.A., Ph.D.; Hunt Professor of Mathematics, Parsons College, Fairfield, Iowa.

1899, Oct. GALE, ARTHUR SULLIVAN, B.A.; Eldridge Fellow, Yale University, New Haven, Conn. *124 West Divinity Hall.*

1899, Aug. GATES, FANNY COOK, M.L.; Instructor in Physics, The Woman's College, Baltimore, Md.

1894, Feb. GENTRY, RUTH, B.Ph., Ph.D. (Bryn Mawr); Associate Professor of Mathematics, Vassar College, Poughkeepsie, N.Y.

1897, Dec. GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Registrar of Columbia University, New York, N. Y.

1900, June GIFFIN, FRANK A., B.A., M.A. *419 West 118th Street*, New York, N. Y.

1891, Jan. GILMAN, GEORGE HOUGHTON, M.A., LL.B. *41 Wall Street*, New York, N. Y.

1892, June GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; F.R.S.; F.R.A.S.; Editor of the *Messenger of Mathematics* and of the *Quarterly Journal of Pure and Applied Mathematics;* Fellow and Tutor of Trinity College, Cambridge, England.

1891, May GLASHAN, JOHN CADENHEAD, LL.D.; Inspector of Public Schools, School Inspector's Office, Ottawa, Canada.

1896, Nov. GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1209 South University Avenue.*

1897, Oct. GORE, JOHN KINSEY, M.A.; Member of the Actuarial Society of America; Actuary of the Prudential Insurance Company, Newark, N. J.

1897, May GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *487 Orange Street.*

1891, June GREEN, RUFUS LOT, B.Sc., M.A.; Professor of Mathematics, Leland Stanford University, Cal.

1897, Oct. *GREENHILL, ALFRED GEORGE, M.A.; F.R.S.; Member of the London Mathematical Society; Professor of Mathematics, Ordnance College, Woolwich, England.

Date of Admission.

1900, June GREENSTREET, WILLIAM JOHN, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Editor of the *Mathematical Gazette*; Headmaster of the Marling School, Stroud, England.

1893, Dec. GRIFFITHS, IDA, B.A. *15 West 86th Street*, New York, N. Y.

1899, Oct. GROAT, BENJAMIN FELAND; Instructor in Mechanics and Thermodynamics, University of Minnesota, Minneapolis, Minn.

1894, June GUMMERE, HENRY VOLKMAR, B.Sc., M.A.; Professor of Mathematics, Physics, and Astronomy, Ursinus College, Collegeville, Montgomery Co., Pa.

1894, Aug. HAGEN, JOHN GEORGE, S.J.; Director of the Georgetown College Observatory, Washington, D. C. *Georgetown University.*

1891, Nov. HALL, ASAPH, JR., B.A., Ph.D. (Yale); Member of the Astronomische Gesellschaft, Professor of Astronomy and Director of the Observatory, University of Michigan, Ann Arbor, Mich.

1892, Apr. HALL, TOMAS PROCTOR, Ph.D. (Clark); Professor of Physics, Kansas City University, Kansas City, Kan.

1894, Oct. HALLET, GEORGE H., M.A., Ph.D.; Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*

1891, May HALSTED, GEORGE BRUCE, M.A., Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the London Mathematical Society; Professor of Mathematics, University of Texas, Austin, Texas. *2407 Guadalupe Street.*

1899, Aug. HAMMERSLOUGH, CARRIE, M.A. *1215 Madison Avenue*, New York, N. Y.

1895, Apr. HANCOCK, HARRIS, B.A. Ph.D. (Berlin); Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio.

1900, Dec. HANNA, ULYSSES S., M.A.; Instructor in Mathematics, Indiana University, Bloomington, Ind. *3921 Baltimore Avenue*, Philadelphia, Pa.

1894, Feb. HARDCASTLE, FRANCES, Member of the London Mathematical Society. *14 Huntingdon Road*, Cambridge, England.

1891, May * HARKNESS, JAMES, M.A.; Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

1891, Apr. HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me.

Date of Admission.

1899, Dec. HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Associate Professor of Mathematics and Dean of the College of Letters, University of California, Berkeley, Cal. *P. O. Box 3.*

1891, May HATHAWAY, ARTHUR STAFFORD, B.Sc.; Professor of Mathmatics, Rose Polytechnic Institute, Terre Haute, Ind. *2206 North 10th Street.*

1898, Aug. HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *1494 Chapel Street.*

1894, Aug. HAY, GUSTAVUS, B.A., M.D. (Harvard). *383 Marlborough Street*, Boston, Mass.

1900, Dec. HEWES, LAWRENCE ILSEY, B.Sc. *285 York Street*, New Haven, Conn.

1892, Dec. HILL, GEORGE WILLIAM, Ph.D., Sc.D. (Cambridge), LL.D. (Columbia, Princeton); EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Associate of the Royal Astronomical Society, West Nyack, N. Y.

1895, Nov. HILL, JOHN ETHAN, Ph.D. (Clark); Instructor in Mathematics, University of West Virginia, Morgantown, W. Va.

1898, Dec. HIMOWICH, ADOLPH, A., M.Sc., M.D. *130 Henry Street*, New York, N. Y.

1894, Mar. HITCHCOCK, FANNY R. M., Ph.D.; Director of Women Students, University of Pennsylvania, Philadelphia, Pa. *4038 Walnut Street.*

1895, Feb. HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark); Professor of Applied Mathematics, Northwestern University, Evanston, Ill. *617 Hamline Street.*

1889, June HOLLADAY, WALLER, B.Sc., C.E., M.E.; Professor of Mathematics, Cooper Institute; Mathematician of the Equitable Life Assurance Society, *120 Broadway*, New York, N. Y.

1891, May HOWE, CHARLES SUMNER, M.Sc., Ph.D.; Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio.

1891, May HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Director of the Chamberlin Observatory of the University of Denver, University Park, Col.

1891, May HULBURT, LORRAIN SHERMAN, M.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.

Date of Admission.

1891, Apr. HUSSEY, WILLIAM J., B.Sc.; Astronomer in the Lick Observatory, Mt. Hamilton, Cal.

1896, Nov. HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *1216 Cascadilla Place.*

1891, May HYDE, EDWARD WYLLYS, C.E. *814 Lincoln Avenue, Station D,* Cincinnati, O.

1891, June IRELAND, OSCAR BROWN, M.A.; Vice-President of the Actuarial Society of America; Actuary of the Massachusetts Mutual Life Insurance Company, Springfield Mass. *P. O. Box 1608.*

1892, Jan. JACOBUS, DAVID S., M.E.; Professor of Experimental Mechanics and Engineering Physics, Stevens Institute of Technology, Hoboken, N. J.

1888, Nov. JACOBY, HAROLD, Ph.D. (Columbia); Member of the Astronomische Gesellschaft; F.R.A.S.; Adjunct Professor of Astronomy, Columbia University, New York, N. Y.

1893, Feb. JAMES, JOHN NELSON, B.A. Halle, Germany. *Karlstrasse 23*[1].

1897, Apr. JOFFE, S. A., M.Sc., Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.

1891, Mar JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.

1899, Oct. KASNER, EDWARD, M.A., Ph.D. (Columbia); Tutor in Mathematics, Columbia University, New York, N. Y. *121 E. 114th Street.*

1891, Dec. KENNELLY, A. E., D. Sc.; F.R.A.S. *1420 Chestnut Street,* Philadelphia, Pa.

1900, Dec. KENYON, ALFRED MONROE, B.A., M.A.; Instructor in Mathematics, Purdue University, Lafayette, Ind.

1897, Aug. KEPPEL, HERBERT G., M.A.; Member of the Amsterdam Mathematical Society; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1914 Orrington Avenue.*

1892, Oct. KERR, WILLIAM JASPER, D.Sc.; President of the Agricultural College of Utah, Logan, Utah.

1891, Apr. KERSHNER, JEFFERSON E., M.A., Ph.D. (Yale); Professor of Mathematics, Franklin and Marshall College, Lancaster, Pa. *337 West Walnut Street.*

1897, Aug. KEYSER, CASSIUS JACKSON, B.Sc., M.A.; Instructor in Mathematics, Columbia University, New York, N. Y.

1891, Dec. KNISELY, ALEXANDER, B.Sc.; Logansport, Ind.

1894, Apr. *LADUE, POMEROY, B.Sc.; Professor of Mathematics, New York University, New York, N. Y. *University Heights.*

Date of Admission.

1893, Dec. LAMBERT, PRESTON ALBERT, M.A.; Assistant Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 South Center Street.*

1897, Jan. LANDIS, WILLIAM WEIDMAN, M.A.; Professor of Mathematics, Dickinson College, Carlisle, Pa.

1898, Apr. LANZA, GAETANO, B.Sc., C. and M.E.; Professor of Theoretical and Applied Mechanics, in charge of the Department of Mechanical Engineering, Massachusetts Institute of Technology, Boston, Mass.

1897, May LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Instructor in Astronomy, University of Chicago, Chicago, Ill.

1889, Dec. LEGRAS, GUSTAVE, B.Sc., M.Sc.; Assistant Professor of Mathematics, College of the City of New York. *17 Lexington Avenue,* New York, N. Y.

1900, Oct. LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2924 Shattuck Avenue.*

1892, Feb. LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Associate Professor of Astronomy and Geodesy, and Director of the Students' Observatory, University of California, Berkeley, Cal. *2011 Bancroft Way.*

1891, May LEWIS, CHARLTON THOMAS, Ph.D. (New York University); Member of the Actuarial Society of America. *34 Nassau Street,* New York, N. Y.

1894, June LING, GEORGE HERBERT, Ph.D. (Columbia); Instructor in Mathematics, Wesleyan University, Middletown, Conn.

1900, Dec. LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Mathematics, Leland Stanford University, Cal.

1891, June LOUD, FRANK HERBERT, M.A., Ph.D. (Haverford); Professor of Mathematics, Colorado College, Colorado Springs, Col. *1203 North Tejon Street.*

1891, Apr. LOVE, JAMES LEE, M.A.; Instructor in Mathematics and Secretary of the Lawrence Scientific School, Harvard University, Cambridge, Mass. *16 University Hall.*

1894, Oct. LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipsic); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society*; Professor of Mathematics, Princeton University, Princeton, N. J. *76 Boulevard St. Michel, Paris, France.*

Date of Admission.

1896, Nov. LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Captain, 6th U. S. Artillery, Manila, P. I.

1894, Oct. LYMAN, ELMER A., B.A.; Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.*

1889, Dec. *MCCLINTOCK, EMORY, M.A., Ph.D. (Wisconsin), LL.D. (Columbia, Yale); EX-PRESIDENT; F.I.A.; Member of the Actuarial Society of America; Member of the London Mathematical Society; Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.

1891, May MCDOUGALL, ALEXANDER HIRAM, B.A.; Mathematical Master of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*

1897, Dec. MCKAY, ALEXANDER CHARLES, B.A.; Professor of Mathematics, McMaster University, Toronto, Can.

1895, Nov. MCKINNEY, THOMAS EMERY, M.A.; Professor of Mathematics and Astronomy, Marietta College, Marietta, O. *617 Wooster Street.*

1891, Apr. MCMAHON, JAMES, M.A.; Member of the London Mathematical Society; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.*

1891, Apr. MCNEILL, MALCOLM, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill.

1898, Dec. *MACAULAY, FRANCIS SOWERBY, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette;* Mathematical Master, St. Paul's School, West Kensington, London, W., England.

1891, May MACFARLANE, ALEXANDER, M.A., D.Sc. (Edinburgh), LL.D.; Member of the Circolo Matematico di Palermo; Lecturer on Mathematical Physics, Lehigh University, South Bethlehem, Pa. *Gowrie Grove,* Chatham, Ontario, Canada.

1897, Dec. MACKAY, JOHN STURGEON, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Master in the Edinburgh Academy. *69 Northumberland Street,* Edinburgh, Scotland.

1897, Feb. MACKINNON, ANNIE LOUISE, M.Sc., Ph.D.; Professor of Mathematics, Wells College, Aurora, N. Y.

1888, Nov. MACLAY, JAMES, C.E., Ph.D. (Columbia); Instructor in Mathematics, Columbia University, New York, N. Y.

Date of Admission.

1897, Jan. MADDISON ISABEL, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Secretary to the President and Reader in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

1897, Aug. MALTBIE, WILLIAM HENRY, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, The Woman's College, Baltimore, Md.

1900, June MANCHESTER, JAMES EUGENE, B.Sc., Ph.D. (Tübingen), Professor of Mathematics, Vincennes University, Vincennes, Ind.

1891, Nov. MANN, CHARLES RIBORG, M.A., Ph.D. (Berlin); Instructor in Physics, University of Chicago, Chicago, Ill.

1891, Nov. MANNING, HENRY PARKER, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Pure Mathematics, Brown University, Providence, R. I.

1891, June MARKLEY, JOSEPH LYBRAND, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *912 Forest Avenue.*

1891, Apr. MARTIN, ARTEMAS, M.A., Ph.D., LL.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; Editor of the *Mathematical Magazine* and of the *Mathematical Visitor;* U. S. Coast and Geodetic Survey Office, Washington, D. C. *1534 Columbia Street, N. W.*

1899, Dec. MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr). *623 North 18th Street,* Philadelphia, Pa.

1893, Feb. MASCHKE, HEINRICH, Ph.D. (Göttingen); Associate Professor of Mathematics, University of Chicago, Chicago, Ill. *5721 Monroe Avenue.*

1890, May MASON, JAMES WEIR, M.A.; Member of the Actuarial Society of America; Professor of Pure Mathematics, College of the City of New York, New York, N. Y.

1892, Mar. MENDIZÁBAL-TAMBORREL JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; F.R.A.S.; Member of the Astronomische Gesellschaft; Captain of Engineer Corps; *Sociedad "Alzate," Palma No 13,* Mexico, D. F., Mexico.

1891, Apr. MERRIMAN, MANSFIELD, C.E., PhD.; Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa.

Date of Admission.	
1889, June	MESSENGER, HIRAM JOHN, Lit.B., Ph.D.; Member of the Actuarial Society of America; Actuary of the Travelers Insurance Company, Hartford, Conn.
1891, Oct.	METZLER, WILLIAM H., B.A., Ph.D. (Clark); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y.
1891, June	MILLER, BLOOMFIELD JACKSON, Member of the Actuarial Society of America; Mathematician of the Mutual Benefit Life Insurance Company. *752 Broad Street*, Newark, N. J.
1891, May	MILLER, EPHRAIM, M.A., Ph.D., Professor of Mathematics and Astronomy, and Dean of the School of Arts, University of Kansas, Lawrence, Kan. *1244 Tennessee Street.*
1898, Apr.	*MILLER, GEORGE A., Ph.D.; Instructor in Mathematics, Cornell University, Ithaca, N. Y. *115 Cook Street.*
1899, Oct.	MILLER, JOHN ANTHONY, M.A., Ph.D. (Chicago); Professor of Mechanics and Astronomy, University of Indiana, Bloomington, Ind. *334 South Dunn Street.*
1900, Dec.	MILNE, EDWARD LAWRENCE, M.Sc.; Instructor in Mathematics, University of Illinois, Champaign, Ill. *307 West Hill Street.*
1900, Dec.	MITCHELL, HENRY BEDINGER, E.E., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y. *Linden Hill, Flushing*, New York, N. Y.
1891, May	MOODY, WILLIAM ALBION, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*
1891, May	MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale; Göttingen, honorary); Member of the Circolo Matematico di Palermo; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5538 Washington Avenue.*
1896, May	MORE, LOUIS TRENCHARD, B.Sc., Ph.D. (Johns Hopkins); Professor of Physics, University of Cincinnati, Cincinnati, O.
1891, May	MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Editor of the *Bulletin of the American Mathematical Society;* Editor of the *American Journal of Mathematics*; Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1900, Feb.	MOULTON, FORREST RAY, B.A., Ph.D. (Chicago); F.R.A.S.; Instructor in Astronomy, University of Chicago, Chicago, Ill.

Date of Admission.

1900, Dec. MUKHOPÂDHYÂY, ASUTOSH, M.A., LL.D.; Member of the Société Mathématique de France; Member of the Edinburgh Mathematical Society; Member of the Circolo Matematico di Palermo; F.R.A.S.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta, Calcutta, India; Professor of Mathematics at the Indian Association for the Cultivation of Science. *77 Russa Road North*, Bhowanipore, Calcutta.

1898, Oct. MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Central High School, Cleveland, O.

1890, Dec. MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Cornell University, Ithaca, N. Y.

1891, June NELSON, ALFRED BRIERLEY, M.A., M.D.; Professor of Mathematics, Centre College, Danville, Ky. *443 Lexington Street.*

1895, Dec. NEUFELD, JULIUS L., E.E.; Instructor in Mathematics, Central High School, Philadelphia, Pa. *1905 Venango Street.*

1891, Nov. NEWCOMB, SIMON, D.Sc., Ph.D., LL.D., D.C.L.; EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Institute of France; Foreign Associate of the Royal Astronomical Society; Editor of the *American Journal of Mathematics;* Associate Editor of *Science;* Professor of Mathematics and Astronomy, Johns Hopkins University; Professor of Mathematics, U. S. Navy, retired. *1620 P Street*, Washington, D. C.

1891, Oct. NEWSON, HENRY BYRON, M.A., Ph.D.; Associate Professor of Mathematics, University of Kansas, Lawrence, Kan.

1899, Aug. NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Assistant Professor of Mathematics, Hamilton College, Clinton N. Y.

1900, Dec. NICHOLS, WALTER SMITH, B.A., M.A.; Member of the Actuarial Society of America; Editor of the *Insurance Monitor* and *Insurance Law Journal. 100 William Street*, New York, N. Y.

1891, June NICHOLSON, JAMES WILLIAM, M.A., LL.D.; Professor of Mathematics, Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La. *901 Convention Street.*

1899, Dec. NOBLE, CHARLES ALBERT, B.Sc.; Instructor in Mathematics, University of California, Berkeley, Cal. *2727 Bancroft Way.*

Date of Admission.

1891, Dec. OLDS, GEORGE DANIEL, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.

1891, Apr. OSBORNE, GEORGE ABBOTT, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.

1895, Feb. OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *60 Walker Street.*

1894, Oct. OSTERBERG, MAX, E.E., M.A. *11 Broadway,* New York, N. Y.

1900, Dec. PAGE, JAMES MORRIS, M.A., Ph.D. (Leipsic); Associate Professor of Mathematics, University of Virginia, Charlottesville, Va.

1897, May PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *2531 Euclid Avenue.*

1894, Mar. PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Professor of Physics, Central Manual Training School, Philadelphia, Pa. *17th and Wood Streets.*

1896, Dec. PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.

1891, May PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipsic); Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. *51 Oxford Street.*

1898, Oct. PEIRCE, JAMES MILLS, M.A.; Perkins Professor of Astronomy and Mathematics, Harvard University, Cambridge, Mass. *4 Kirkland Place.*

1898, Oct. PELL, ALEXANDER, Ph.D. (Johns Hopkins); Professor of Mathematics, University of South Dakota, Vermillion, S. Dak.

1893, Oct. PETTEGREW, DAVID LYMAN, General Special Agent of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 75,* Worcester, Mass.

1892, Oct. PFISTER, JOSEPH CLEMENT, M.A.; Tutor in Mechanics, Columbia University, New York, N. Y.

1891, June PHILBRICK, PHILETUS HARVEY, M.Sc., C.E.; Chief Engineer of the K. C. W. & G. Ry., Lake Charles, La.

1896, Nov. PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *209 York Street.*

Date of Admission.

1894, Oct. PIERPONT, JAMES, Ph.D. (Vienna); Professor of Mathematics, Yale University, New Haven, Conn. *42 Mansfield Street.*

1889, Dec. PIERSON, ISRAEL CORIELL, M.A., Ph.D.; Member of the Actuarial Society of America; Actuary of the Washington Life Insurance Company of New York. *141 Broadway,* New York, N. Y.

1892, Nov. PLUMLEY, GARDNER LADD, Member of the Actuarial Society of America; Assistant Actuary of the Home Life Insurance Company. *256 Broadway,* New York, N. Y.

1890, Dec. POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S. *4 East 48th Street,* New York, N. Y.

1897, Feb. PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Instructor in Mathematics, Yale University, New Haven, Conn. *218 Mansfield Street.*

1892, May PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *142 Hamilton Street.*

1889, Dec. PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin); Adjunct Professor of Mechanics, Columbia University, New York, N. Y.

1891, June PURYEAR, CHARLES, B.Sc., M.A., C.E.; Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Texas.

1891, June PUTNAM, KENDRICK S., M.A.; City Chamberlain, Rome, N. Y.

1900, Feb. RADELFINGER, FRANK GUSTAVE, B.Sc.; Patent Attorney. *1431 Chapin Street,* Washington, D. C.

1894, Mar. RAND, JOHN HOLMES, M.A.; Professor of Mathematics, Bates College, Lewiston, Me. *28 Frye Street.*

1898, Oct. RANUM, ARTHUR, B.A.; Professor of Mathematics and Astronomy, University of Washington, Seattle, Washington. *337 Belmont Avenue, North.*

1891, Dec. RAYSON, AMY, B.A.; Joint Principal of School for Girls, New York, N. Y. *176 and 180 West 75th Street.*

1888, Nov. REES, JOHN KROM, M.A., E.M., Ph.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Director of the Observatory, Columbia University, New York, N. Y.

1900, Apr. REID, LEGH WILBER, B.Sc., B.A., M.Sc., Ph.D. (Göttingen); Instructor in Mathematics, Haverford College, Haverford, Pa.

Date of Admission.

1893, Apr. RICE, CHARLES MOEN, B.A.; Worcester, Mass. *P. O. Box 215.*

1891, Apr. RICE, JOHN MINOT, B.Sc., Ph.D. (Stevens Institute); Professor of Mathematics, U. S. Navy, retired; Northborough, Mass.

1899, Aug. *RICHMOND, HERBERT WILLIAM, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Fellow and Lecturer of King's College, Cambridge, England.

1891, Oct. ROCKWELL, CHARLES HALL. Tarrytown, N. Y.

1891, May ROCKWOOD, CHARLES GREENE, JR., M.A., Ph.D. (Yale); Professor of Mathematics, Princeton University, Princeton, N. J. *34 Bayard Lane.*

1896, Apr. ROE, EDWARD DRAKE, JR., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. *105 Anna Street.*

1897, Feb. ROTHROCK, DAVID ANDREW, M.A., Ph.D. (Leipsic); Associate Professor of Mathematics, University of Indiana, Bloomington, Ind.

1898, Aug. SAFFORD, FREDERICK HOLLISTER, M.A., Ph.D. (Harvard), Assistant Professor of Mathematics and Mathematical Physics, University of Cincinnati, Cincinnati, Ohio.

1897, Dec. SAUREL, PAUL LOUIS, B.Sc., D.Sc. (Bordeaux); Instructor in Mathematics, College of the City of New York. *17 Lexington Avenue,* New York, N. Y.

1891, Nov. SAYRE, HERBERT ARMISTEAD, B.E., Ph.D. (Johns Hopkins); Professor of Physics, University of Alabama, University, Ala.

1894, Mar. SCHLEGEL, VICTOR, Ph.D. (Leipsic); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Königliche Höhere Machinenbauschule, Hagen, Germany. *Volmestrasse, 62.*

1898, Aug. SCHLESINGER, FRANK, M.A., Ph.D. (Columbia); Member of the Astronomische Gesellschaft; Observer in charge of the International Latitude Station, Ukiah, Cal.

1892, Feb. SCHMIEDEL, OSCAR, B.Sc., M.A.; Professor of Mathematics, Bethany College, Bethany, W. Va.

1895, Mar. SCHMITT, COOPER DAVIS, M.A; Professor of Mathematics, University of Tennessee, Knoxville, Tenn.

1900, Oct. SCHOTTENFELS, IDA MAY, Ph.B., Ph.M.; Teacher in the Chicago Public Schools, Chicago, Ill. *4532 Lake Avenue.*

Date of Admission.

1892, Apr. SCHULTZE, ARTHUR, Ph.D.; Boys' High School, New York, N. Y.

1899, Feb. SCHULZ, WALDEMAR, Ph.D. (Halle); Instructor in German, University of Minnesota, Minneapolis, Minn.

1893, Oct. SCHWATT, ISAAC J., Ph.D.; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

1891, May SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

1889, June SEARLE, REV. GEORGE Mary, M.A., Ph.D. Catholic University, Washington, D. C.

1895, Aug. SEE, THOMAS JEFFERSON JACKSON, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Mathematics, U. S. Navy, Washington, D. C. *Naval Observatory.*

1899, Aug. SELLEW, GEORGE TUCKER, M.A. Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.

1892, June SHACK, FERDINAND, B.Sc., M.A., LL.B. *56 Wall Street,* New York, N. Y.

1891, Apr. SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.

1894, Mar. SHAW, JAMES BYRNIE, M.Sc., D.Sc.; Associate Professor of Mathematics, Kenyon College, Gambier, Ohio.

1900, Oct. SHERMAN, FRANK DEMPSTER, Ph.B.; Adjunct Professor of Architecture, Columbia University, New York, N. Y.

1899, Oct. SINGER, SIMON AUGUSTUS, B.A.; Professor of Mathematics, Capital University, Columbus, Ohio.

1899, Aug. SKINNER, ERNEST BROWN, B.A.; Assistant Professor of Mathematics, University of Wisconsin, Madison, Wisconsin. *5738 Jackson Avenue,* Chicago, Ill.

1899, Oct. SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Chicago, Chicago, Ill. *5535 Madison Avenue.*

1900, Oct. SMITH, BURKE, B.Sc.; Instructor in Mathematics, Northwestern University, Evanston, Ill. *619 University Place.*

1893, Oct. SMITH, DAVID EUGENE, Ph.M., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Principal of the State Normal School, Brockport, N. Y.

Date of Admission.

1898, Apr. | SMITH, EUGENE RANDOLPH, B.A., MA.; Instructor in Mathematics, Montclair High School, Montclair, N. J. *75 Valley Road.*

1891, May | SMITH, OTIS DAVID, M.A., LL.D.; Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala.

1891, Nov. | SMITH, PERCEY FRANKLYN, Ph.D.; Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *318 Humphrey Street.*

1891, Apr. | SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen); Professor of Mathematics, Tulane University, New Orleans, La.

1889, Dec. | SNOOK, THOMAS EDWARD, E.M.; Architect and Engineer. *261 Broadway*, New York, N. Y.

1895, Apr. | SNYDER, MONROE BENJAMIN, M.A.; Professor of Astronomy and Applied Mathematics, Central High School, Philadelphia, Pa. *2402 North Broad Street.*

1896, Nov. | SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *204 University Avenue.*

1892, May | SQUIER, GEORGE OWEN, Ph.D. (Johns Hopkins); Lieutenant-Colonel U. S. A. Signal Corps; First Lieutenant, 3d Artillery, U. S. A.; Manager of the *Journal of the U. S. Artillery. Army and Navy Club*, Washington, D. C.

1888, Nov. | STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia). *135 Willow Street*, Brooklyn, N. Y.

1899, Aug. | STARKWEATHER, GEORGE PRATT, Ph.B., M.E., Ph.D. (Yale); Assistant Professor of Applied Mechanics, Sheffield Scientific School, Yale University, New Haven, Conn. *344 Cedar Street.*

1894, Nov. | STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1026 Ayars Court.*

1891, Jan. | STEINMETZ, CHARLES PROTEUS, Electrician, General Electric Company, Schenectady, N. Y.

1891, June | STEVENS, MOSES COBB, M.A.; Professor of Mathematics, Purdue University, Layfayette, Ind. *11 Waldron Street.*

1891, June | ST. JOHN, HOWELL WILLIAM, Ph.B.; Member of the Actuarial Society of America; Corresponding Member of the Institut des Actuaires Français; Actuary of the Ætna Life Insurance Company, Hartford, Conn. *P. O. Box 913.*

1891, May | STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics*; Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Charlottesville, Va.

Date of Admission.

1897, Feb. STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipsic); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.

1895, Dec. STRONG, WENDELL MELVILLE, M.A., Ph.D. (Yale). Mutual Life Insurance Company of New York. *32 Nassau Street*, New York, N. Y.

1891, May *TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Assistant Professor of Mathematics, Clark University, Worcester, Mass;

1900, Dec. TALIAFERRO, THOMAS HARDY, C.E., Ph.D. (Johns Hopkins); Instructor in Mathematics, Pennsylvania State College, State College, Center County, Pa.

1896, Nov. *TANNER, JOHN HENRY, B.Sc.; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*

1889, Dec. TATLOCK, JOHN, JR., M.A.; F.R.A.S.; Associate Actuary of the Mutual Life Insurance Company of New York, New York, N. Y. *32 Nassau Street.*

1891, Apr. TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.

1899, Oct. THOMPSON, EDWARD PAYSON, M.A.; Professor of Mathematics and Astronomy, Miami University, Oxford, Ohio.

1891, Apr. THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *80 University Place.*

1897, Jan. THORNBURG, CHARLES LEWIS, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *308 Packer Avenue.*

1895, Nov. TOWNSEND, EDGAR JEROME, Ph.B., Ph.M., Ph. D. (Göttingen); Associate Professor of Mathematics, University of Illinois, Champaign, Ill. *402 West Clark Street.*

1893, Nov. TURRELL, ISAAC HODGES, Principal of the Fourth District School, Cincinnati, O. *403 Chase Street, North Side.*

1894, Aug. TYLER, HENRY WALTER, B.Sc., Ph.D. (Erlangen); Professor of Mathematics and Secretary of the Massachusetts Institute of Technology, Boston, Mass.

1897, Dec. UNDERHILL, MARY, M.Sc. *393 North Main Street*, Wallingford, Conn.

1888, Nov. VAN AMRINGE, J. HOWARD, M.A., Ph.D., L.H.D., LL.D.; EX-PRESIDENT; Professor of Mathematics and Dean of Columbia College, Columbia University, New York, N. Y. *204 West 44th Street.*

Date of Admission.

1891, June | VAN VELZER, CHARLES AMBROSE, B.Sc., Ph.D.; Member of the London Mathematical Society; Professor of Mathematics, University of Wisconsin, Madison, Wis. *134 West Gorham Street.*

1893, Apr. | VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen); Professor of Mathematics, Wesleyan University, Middletown, Conn.

1891, Apr. | VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.

1900, June | VAUGHN, WILLIAM JAMES, M.A., LL.D.; Professor of Mathematics and Astronomy, Vanderbilt University, Nashville, Tenn.

1900, Dec. | VIVIAN, ROXANA HAYWARD, B.A., Alumnæ Fellow in Mathematics, University of Pennsylvania, Philadelphia, Pa. *106 Gordan Avenue,* Hyde Park, Mass.

1890, May | VON NARDROFF, ERNEST ROBERT, E.M.; Head of the Science Department, Erasmus Hall High School, Brooklyn, N. Y.

1891, Oct. | WAIT, LUCIEN AUGUSTUS, B.A.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *135 East Avenue.*

1891, Apr. | WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Head Professor of Mathematics, Purdue University, Lafayette, Ind. *113 South Ninth Street.*

1898, Dec. | WALKER, BUZZ, M., B.Sc., M.Sc.; Professor of Mathematics, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.

1894, Feb. | WALKER, LON CAIN, M.A.; Assistant Professor of Mathematics, Leland Stanford University, Palo Alto, Cal.

1898, Apr. | WASHBURNE, ALVA COURTENAY, Member of the Actuarial Society of America; Actuarial Division, Metropolitan Life Insurance Company. *1 Madison Avenue,* New York, N. Y.

1891, Oct. | WEBB, JOHN BURKITT, C.E.; Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J.

1891, May | WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin); Professor of Physics, Clark University, Worcester, Mass.

1891, June | WEEKS, RUFUS WELLS; Member of the Actuarial Society of America; Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.

1891, Apr. | WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.

Date of Admission.

1891, May WENTWORTH, GEORGE ALBERT, M.A. Exeter, N. H.

1896, Sept. WENTZ, ESTELLA KATE, B.Sc., M.Sc.; Instructor in Mathematics, Manual Training High School, Indianapolis, Ind.

1897, Feb. WERNICKE, AUGUST LUDWIG PAUL; Professor of Modern Languages, State College of Kentucky, Lexington, Ky. *411 South Limestone Street.*

1897, Dec. *WESTERN, ALFRED EDWARD, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. *36 Lancaster Gate*, London, W., England.

1899, Apr. WESTFALL, JOHN VAN ETTEN, B.Sc., Ph.D. (Leipsic); Instructor in Mathematics, University of Iowa, Iowa City, Ia.

1898, Aug. WESTLUND, JACOB, Ph.D. (Yale); Instructor in Mathematics, Purdue University, Lafayette, Ind. *219 Vine Street.*

1892, Nov. WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics*; Noyes Professor of Pure Mathematics, Northwestern University, Evanston, Ill. *P. O. Box 244.*

1891, June WHITNEY, MARY WATSON, M.A.; Professor of Astronomy and Director of the Observatory, Vassar College, Poughkeepsie, N. Y.

1897, Dec. *WHITTAKER, EDMUND TAYLOR, M.A.; Member of the London Mathematical Society; F.R.A.S.; Fellow and Lecturer of Trinity College, Cambridge, England.

1897, Feb. WHITTEMORE, JAMES KELSEY, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *48 Brattle Street.*

1899, Feb. WILCZYNSKI, ERNEST JULIUS, Ph.D. (Berlin); Instructor in Mathematics, University of California, Berkeley, Cal. *2235 Chapel Street.*

1892, May WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics, Pennsylvania State College, State College, Center Co., Pa.

1895, May WILLIAMS, CLARKE BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *707 West South Street.*

1892, May WILLIAMS, ELLA CORNELIA, M.A. *133 W. 56th Street*, New York, N. Y.

1898, Apr. WILLIAMS, WILLIAM HILL, M.A.; Chair of Mathematics, Wisconsin State Normal School, Platteville, Wis.

1891, May WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 641.*

Date of Admission.

1899, Dec. WILSON, EDWIN BIDWELL, B.A.; Instructor in Mathematics, Yale University, New Haven, Conn. *546 Yale Campus.*

1900, Dec. WILSON, NORMAN RICHARD, B.A.; Instructor in Mathematics, Royal Military College, Kingston, Canada. *Cobourg, Ontario, Canada.*

1897, Jan. WINSTON, MARY FRANCES, B.A., Ph.D. (Göttingen); Professor of Mathematics, Kansas State Agricultural College, Manhattan, Kansas.

1899, Dec. WOOD, RUTH GOULDING, B.Sc.; New Haven, Conn. *1193 Chapel Street.*

1895, Oct. WOODS, FREDERICK S., B.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *21 Church Street,* Newton, Mass.

1891, May WOODWARD, ROBERT SIMPSON, C.E., Ph.D. (Michigan); EX-PRESIDENT; Member of the National Academy of Sciences; Associate Editor of *Science;* Professor of Mechanics and Mathematical Physics and Dean of the School of Pure Science, Columbia University, New York, N. Y.

1891, May WORTHEN, THOMAS WILSON DORR, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.

1898, Oct. WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America; Consulting Life Insurance Actuary. *45 Milk Street, Room 77,* Boston, Mass.

1891, May YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Assistant Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. *5430 Washington Avenue.*

1893, Mar. YOWELL, EVERETT IRVING, B.Sc., C.E.; Assistant at the Cincinnati Observatory, Cincinnati, O.

1891, Apr. ZIWET, ALEXANDER, C. E.; Editor of the *Bulletin of the American Mathematical Society;* Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.*

Number of members, January 1, 1901 357
Number of members, January 1, 1900 337
Members admitted during the year 1900 44
Members withdrawing during the year 1900 24

CONSTITUTION.

Article I.

This Society shall be called the American Mathematical Society.

Article II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

Article III.

The officers of the Society shall be a President, two Vice-Presidents, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

Article IV.

The officers of the Society, the ex-Presidents, and twelve other members of the Society shall constitute a Council, which shall have general charge of the affairs of the Society.

Article V.

1. The officers of the Society and four other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The ex-Presidents of the Society shall be permanent members of the Council; the term of office otherwise shall, beginning with the Annual Meeting in 1900, be two years for the President, one year for other officers, and three years for other members of the Council, and until their successors shall be elected. After the Annual Meeting in 1900, for election as President shall be eligible those members of the Society who have served in the office of Vice-President and who are not holding office as President or Vice-President; and for election as Vice-President shall be eligible those members of the Society not holding office as President or

Vice-President. No elected member of the Council, having completed a term of three years, shall be reëlected until at least one year shall have intervened.

2. If the President of the Society die or resign before the expiration of his term of office, the Council may designate one of the Vice-Presidents to serve as Acting President until the next Annual Meeting, when a President shall be elected by the Society. Such vacancies as may exist at any time among the other offices may be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting.

Article VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

BY-LAWS.

I.

The election of new members of the Society shall be by vote of the Council. Applications for admission shall be made by the applicant personally, on blanks provided by the Secretary, and shall be endorsed by two members of the Society. Such applications, being received at any meeting of the Council, shall be laid over for action at any subseqent meeting.

II.

1. Persons elected by the Council, as provided in By-Law I, shall be admitted to membership in the Society upon the payment, within sixty days of the date of their election, of an initiation fee of five dollars.

2. The annual dues shall be five dollars, payable on the 1st of January. Each new member shall pay in proportion to the unexpired fraction of the year at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

3. On the payment of fifty dollars in one sum, exclusive of initiation fee, any member may become a life member and shall thereafter be exempt from all annual dues.

III.

The times and places of meetings of the Society shall be designated by the Council, but the Annual Meeting shall be held on a date between the 26th and 31st of December, inclusive; and Regular Meetings shall be held on the last Saturday of February, April, and October, unless otherwise ordered by the Council. Notice of the time and place of each meeting shall be sent by the Secretary to all members of the Society.

IV.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each sectional meeting of such members of the Society as may be present; and the Council shall have the right to withdraw such authorization.

V.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

VI.

1. The order of business at the meetings of the Society shall be as follows:

1. Reading of the minutes.
2. Recommendations and reports.
3. Elections.
4. Miscellaneous business.
5. Presentation and discussion of papers previously approved by the programme committee.

2. No question relative to administration shall be considered at any meeting except the Annual Meeting, without the recommendation of the Council.

VII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting next succeeding his election as President of the Society.

VIII.

1. The President may convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

IX.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

X.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. The three members of the committee appointed in 1899 shall serve respectively until 1902, 1903, and 1904. In and after 1902, annually at the February meeting, the Council shall appoint one member to serve for three years. Members of the committee shall be eligible to reappointment. Vacancies in the committee shall be filled by the Council.

3. The editorial committee shall have power to elect one of its members as editor-in-chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor-in-chief, the Council shall designate one of the members of the committee to act as editor-in-chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

XI.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

ANNUAL REPORTS.

REPORT OF THE TREASURER FOR THE YEAR 1900.

RECEIPTS.

	Balance from 1899, cash	$1,559 29	
	Balance from 1899, life membership fund	600 00	
			$2,159 29
2	Annual payments for 1897		10 00
13	Annual payments for 1898		65 00
29	Annual payments for 1899		145 00
268	Annual payments for 1900		1,340 00
2	Annual payments for 1901		10 00
2	Payments for fractional parts of 1899		2 91
12	Payments for fractional parts of 1900		35 46
2	Initiation fees for 1899		10 00
20	Initiation fees for 1900		100 00
3	Life membership fees		150 00
	Sales of reprints		11 80
	Sales of BULLETIN through The Macmillan Company		230 00
	Sales of BULLETIN through the Secretary		64 16
	Sales of Chicago Papers		3 00
	Contributions in support of the TRANSACTIONS :		
	Columbia University		100 00
	Haverford College		100 00
	University of Chicago		100 00
	Harvard University		100 00
	Yale University		100 00
	Princeton University		100 00
	Northwestern University		100 00
	University of California		100 00
44	Subscriptions to TRANSACTIONS ($3.75), for 1900		165 00
2	Subscriptions to TRANSACTIONS ($3.75), for 1901		7 50
18	Subscriptions to TRANSACTIONS ($4.50), for 1900		81 00
3	Subscriptions to TRANSACTIONS ($4.50), for 1901		13 50
11	Subscriptions to TRANSACTIONS ($5.00), for 1900		55 00
1	Sale of single copy TRANSACTIONS		1 31
	Interest on deposit with Fifth Avenue Trust Co.		46 90
			$5,506 83

DISBURSEMENTS.

Expenses of the Secretary's office		$ 112 08
Expenses of the Treasurer's office		87 80
Expenses of the Chicago Section		23 73
Expenses of the Committee of Publication		25 14
Expenses of the Editorial Committee of TRANSACTIONS		181 57
Publication of the BULLETIN, 10 numbers		1,130 99
Reprinting back numbers		52 60
Publication of the TRANSACTIONS, 3 numbers		1,640 64
Annual Register		79 78
Pocket Manual		7 50
Exchange and commissions		4 26
Balance, Dec. 19, 1900, cash	$1,410 74	
Balance, Dec. 19, 1900, life membership fund	750 00	
		$2,160 74
		$5,506 83

WM. S. DENNETT,
Treasurer.

NEW YORK, December 15, 1900.

REPORT OF THE AUDITING COMMITTEE.

The undersigned, a committee appointed by the Council of the AMERICAN MATHEMATICAL SOCIETY to audit the accounts of the Treasurer for the current year, beg to report as follows :

We have examined the statement of receipts, including dues, initiation fees, life membership commutations, and sales of publications, and find the same to be correct. We have examined the statement of the disbursements, compared it with the vouchers, and find that they agree.

The balance reported by the Fifth Avenue Trust Company, December 17, 1900, namely, $2,170.64, subject to a deduction of $9.90, the amount of one outstanding check, agrees with the Treasurer's report.

R. S. WOODWARD,
JOHN TATLOCK, JR.,
PAUL SAUREL.
Auditing Committee.

NEW YORK, December 19, 1900.

REPORT OF THE LIBRARIAN FOR THE YEAR 1900.

The following periodical publications have been added to the library of the American Mathematical Society during the year 1900:

Amsterdam, *Revue Semestrielle des Publications Mathématiques*, vol. 8, nos. 1, 2.

Baltimore, *American Journal of Mathematics*, vol. 22, nos. 1–4.

Berlin, *Fortschritte der Mathematik*, vol. 28, no. 3; vol. 29, nos. 1, 2.

Boston, *Technology Quarterly*, vol. 12, no. 4; vol. 13, nos. 1–3.

Cambridge Philosophical Society, *Proceedings*, vol. 10, nos. 4–6; *Transactions*, vol. 18; vol. 19, no. 1.

Cambridge, Mass., *Annals of Mathematics*, 2d series, vol. 1, nos. 2–4; vol. 2, no. 1.

Caracas, Venezuela, *Annales de la Universidad Central*, vol. 1, nos. 1–3.

Chicago, *Astro-Physical Journal*, vol. 10, no. 5; vol. 11; vol. 12, nos. 1–4.

Christiana, Videnskabs-Selskabet, *Skrifter, Mathematick-Naturvidenskabelig Klasse*, 1899, nos. 1–9; *Forhandlinger*, 1899, nos. 1–4.

Coimbra, *Journal des Sciencias Mathematicas e Astronomicas*, vol. 13, no. 6; vol. 14, nos. 1, 2.

Cracow, *Bulletin International de l'Académie des Sciences*, 1900, nos. 1–7.

Dublin, Royal Society, *Scientific Transactions*, 2d series, vol. 7, nos. 1–7; *Economic Proceedings*, vol. 1, nos. 1, 2; *Scientific Proceedings*, vol. 9, nos. 1, 2.

Edinburgh Mathematical Society, *Proceedings*, vols. 17, 18.

Erlangen, Physikalisch-medicenischen Societät, *Sitzungsberichte*, vols. 29, 31.

Fort Monroe, Va., *Journal of the U. S. Artillery*, vol. 13; vol. 14. nos. 1–3.

Ghent, *Mathesis*, vol. 9, no. 12; vol. 10, nos. 1–11.

Göttingen, *Nachrichten Math. Phys. Klasse*, 1899, no. 3; 1900, no. 1; *Geschäftliche Mittheilungen*, 1900, no. 1.

Halifax, Nova Scotian Institute of Science, *Proceedings and Transactions*, vol. 10, part 1.

Ithaca, N. Y., *Journal of Physical Chemistry*, vol. 3, no. 9; vol. 4,

Kazan, Société Physico-Mathématique, *Bulletin*, vol. 9, nos. 3, 4; vol. 10, no. 1.

Leghorn, *Periodico di Matematica*, vol. 15, nos. 4, 5; vol. 16, nos. 1, 2; Supplemento, vol. 3, nos. 2–9; vol. 4, no. 1.

Leipzig, *Mathematische Annalen*, vol. 52, no. 4; vol. 53; vol. 54, nos. 1, 2.

Leipzig, *Zeitschrift für Mathematik und Physik*, vol. 45, nos. 1–4.

Liege, Société Royal des Science, *Mémoires*, 3d series, vol. 2.

Lima, Peru, *Revista de Ciencias*, vol. 3, nos. 1–3, 5–10.

London, *Educational Times*, vol. 53.

London, *The Mathematical Gazette*, nos. 19–23.

London Mathematical Society, *Proceedings*, nos. 691–730; Index vols. 1–30.

London, Royal Society, *Proceedings*, nos. 422–438.

Manchester Literary and Philosophical Society, *Memoirs and Proceedings*, vol. 43, no. 5; vol. 44.

Mexico, Sociedad Cientifica Antonia Alzate, *Memorias y Rivista*, vol. 14, nos. 1–6, 9, 10.

Milan, *Annali di Matematica*, 3d series, vol. 4, nos. 1, 2.

Mt. Hamilton, Cal., Lick Observatory, *Publications*, vol. 4, 1900.

New York, Actuarial Society of America, *Reports*, vol. 6, nos. 22, 23.

New York, American Mathematical Society, *Bulletin*, vol. 6; *Transactions*, vol. 1.

New York, *Science*, vols. 11, 12.

Palermo, *Il Pitagora*, vol. 6, nos. 1–8.

Palermo, *Rendiconti del Circolo Matematico*, vol. 14, nos. 1–5

Paris, *Journal de Mathématiques*, vol. 5, no. 4; vol. 6, nos. 1, 2.

Paris, *L'Intermédiaire des Mathématiciens*, vol. 6, no. 12; vol. 7, nos. 1–11.

Paris, Société Mathématique de France, *Bulletin*, vol. 27, no. 4; vol. 28, nos. 1–3.

Philadelphia, American Philosophical Society, *Proceedings*, nos. 159–162.

Rome, Reale Accademia dei Lincei, *Rendiconti*, vol. 9, nos. 1–7.

San Francisco, Astronomical Society of the Pacific, *Publications*, nos. 71–75.

Springfield, Mo., *American Mathematical Monthly*, vol. 6. no. 12; vol. 7, nos. 1–10.

St. Louis, Academy of Sciences, *Transactions*, vol. 9, no. 9; vol. 10, nos. 1–7.

Stockholm, *Acta Mathematica*, vol. 23.

Stockholm, Bibliotheca Mathematica, 1900, nos. 1–4.

Stuttgart, *Mathematische-naturwissenschaftliche Mitteilungen*, 2d series, vol. 2, no. 1.

Tokio, Mathematico-Physico Society, *Proceedings*, vol. 8, nos. 4, 5.

Toulouse, *Annales de la Faculté des Sciences*, 2d series, vol. 1, no. 4 ; 1st series, vol. 9.

Toulouse, *Bulletin de l'Académie des Sciences, Inscriptions et Belles-Lettres*, vol. 2, nos. 1–4.

Turin, *Revue de Mathématique*, vol. 6, no. 5 ; vol. 7, no. 1.

Turin, Reale Accademia della Scienze, *Atti*, vols. 30–34 ; vol. 35, nos. 1–15 ; *Memorie*, vols. 48, 49.

Vienna, *Monatshefte für Mathematik und Physik*, vol. 11, nos. 1–4.

Washington, U. S. Geological Survey, *Annual Reports*, 19th year, nos. 2, 3, 5 ; 20th year, nos. 1–7 ; *Monographs*, vol. 32, part 2 ; vols. 33, 34, 36–38 ; *Map of Alaska ; Cape Nome.*

Warsaw, Society of Naturalists, *Proceedings*, vols. 9, 10.

Zurich, *Vierteljahrsschrift der Naturforschenden Gesellschaft*, vols. 42–45.

POMEROY LADUE,
Librarian.

NEW YORK, December 28, 1900.

AMERICAN MATHEMATICAL SOCIETY.

Organized as the New York Mathematical Society, November, 1888.
Reorganized as the American Mathematical Society, July, 1894.

ANNUAL REGISTER.

JANUARY, 1902.

NEW YORK:
PUBLISHED BY THE SOCIETY.
501 WEST 116TH STREET,
1902.

PRESS OF
THE NEW ERA PRINTING COMPANY,
LANCASTER, PA.

DIRECTORY.

Offices of the Secretary, Librarian, and Committee of Publication,
501 West 116th Street, New York, N. Y.

Office of the Treasurer,
8 East 49th Street, New York, N. Y.

Secretary of the Chicago Section,
THOMAS F. HOLGATE, *617 Hamline Street, Evanston, Ill.*

Assistant Secretary of the Society,
EDWARD KASNER, *501 West 116th Street, New York, N. Y.*

Changes of address should be immediately communicated to the Secretary for entry in the mailing lists of the Society.

Membership dues should be remitted to Dr. W. S. DENNETT, Treasurer, 8 East 49th Street, New York, N. Y., by draft or money order, drawn payable to the AMERICAN MATHEMATICAL SOCIETY.

The following dates have been fixed for the meetings of the Society during the year 1902,

Saturday, February 22,	Saturday, April 26,
Saturday, October 25,	Mon.-Tu., December 29–30.

The meeting of December 29–30 will be the Annual Meeting of the Society for the election of officers.

Meetings of the Chicago Section will be held in April and during the Christmas holidays.

Papers intended for presentation at any meeting or sectional meeting of the Society should be sent to the Secretary or Secretary of the Section in advance of the meeting for submission to the Programme Committee, and should be accompanied by an abstract, suitable for publication in the BULLETIN, and a statement of the time required for presentation. Blanks for the entry of abstracts will be furnished by the Secretaries, on application.

PUBLICATIONS.

Transactions of the American Mathematical Society.

EDITED BY

ELIAKIM HASTINGS MOORE,

ERNEST WILLIAM BROWN, THOMAS SCOTT FISKE.

Published quarterly by the Society with the coöperation of

HARVARD UNIVERSITY,	NORTHWESTERN UNIVERSITY,
YALE UNIVERSITY,	CORNELL UNIVERSITY,
PRINCETON UNIVERSITY,	THE UNIVERSITY OF CALIFORNIA,
COLUMBIA UNIVERSITY,	BRYN MAWR COLLEGE,
HAVERFORD COLLEGE,	THE UNIVERSITY OF CHICAGO.

The TRANSACTIONS is devoted primarily to research in pure and applied mathematics, and is the official organ of the Society for the publication of important original papers read before it. The first number appeared in January, 1900.

Publication Agents, The Macmillan Company, 66 Fifth Avenue, New York, N. Y. Subscription price, to members of the Society $3.75 per annum; to non-members $5.00 per annum.

Manuscripts for publication in the TRANSACTIONS should be sent to one of the members of the Editorial Board. Subscriptions and orders should be sent to the AMERICAN MATHEMATICAL SOCIETY, 501 West 116th Street, New York, N. Y.

PUBLICATIONS.

Bulletin

of the

American Mathematical Society.

CONTINUATION OF THE BULLETIN OF THE NEW YORK MATHEMATICAL SOCIETY.

A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE.

EDITED BY

F. N. COLE, ALEXANDER ZIWET, F. MORLEY,
E. O. LOVETT, C. L. BOUTON.

The BULLETIN contains a large number of critical reviews of mathematical treatises and text-books, a complete monthly list of new mathematical publications, notes on current events in the mathematical world, addresses before mathematical societies, reports on progress in various branches of the science, reports of the meetings of the Society and of other mathematical societies and congresses, and many shorter original articles.

Published for the Society by The Macmillan Company, 66 Fifth Avenue, New York, N. Y. Issued monthly, except August and September. Sent free to members of the Society. Subscription price to non-members $5.00. Members of the Society are entitled to receive back volumes to complete their sets at $4.00 per volume.

Books for review and manuscripts intended for publication in the BULLETIN should be sent to one of the members of the Committee of Publication. Subscriptions to the BULLETIN and orders for back numbers should be addressed to The Macmillan Company.

PUBLICATIONS.

Published Papers. Vol. I.

MATHEMATICAL PAPERS READ AT THE INTERNATIONAL MATHEMATICAL CONGRESS HELD IN CONNECTION WITH THE WORLD'S COLUMBIAN EXPOSITION, CHICAGO, 1893.

EDITED BY THE COMMITTEE OF THE CONGRESS:

E. HASTINGS MOORE, OSKAR BOLZA, HEINRICH MASCHKE, HENRY S. WHITE.

Containing papers by Bolza, Burkhardt, Capelli, Cole, Dyck, Echols, Eddy, Fricke, Halsted, Heffter, Hermite, Hilbert, Hurwitz, Klein, Krause, Lemoine, Lerch, Macfarlane, Martin, Maschke, Meyer, Minkowski, Moore, Netto, Noether, D'Ocagne, Paladini, de Perott, Pervouchine, Pincherle, Pringsheim, Sawin, Schlegel, Schoenflies, Stringham, Study, Taber, Weber, Weyr.

Published for the Society by The Macmillan Company, 1896. 8vo, pp. 411. Price, $4.00; to members of the Society, $3.00.

OFFICERS PAST AND PRESENT.

PRESIDENT.

J. H. Van Amringe,	1888–1890,	Simon Newcomb,	1896–1898,
Emory McClintock,	1890–1894,	R. S. Woodward,	1898–1900,
G. W. Hill,	1894–1896,	Eliakim H. Moore,	1900– .

VICE-PRESIDENTS.

Emory McClintock,	1889–1890,	R. S. Woodward,	1896–1898,
J. K. Rees,	1890–1891,	Eliakim H. Moore,	1897–1900,
Henry B. Fine,	1891–1893,	Thomas S. Fiske,	1898–1901,
G. W. Hill,	1893–1894,	Henry S. White,	1900–1901,
Hubert A. Newton,	1894–1896,	Maxime Bôcher,	1901– ,

Frank Morley, 1901– .

SECRETARY.

Thomas S. Fiske,	1888–1895,	F. N. Cole,	1895– .

TREASURER.

Harold Jacoby,	1891–1894,	Harold Jacoby,	1896–1899,
R. S. Woodward,	1894–1896,	W. S. Dennett,	1899– .

LIBRARIAN.

D. A. Murray,	1892–1893,	Edward L. Stabler,	1894–1895,
Gustav Legras,	1893–1894,	Pomeroy Ladue,	1895–1901,

D. E. Smith, 1901– .

COMMITTEE OF PUBLICATION.

Thomas S. Fiske,	1891–1899,	Frank Morley,	1894–1898,
Harold Jacoby,	1891–1893,	F. N. Cole,	1898– ,
Alexander Ziwet,	1893– ,	Frank Morley,	1899– .

MEMBERS OF THE COUNCIL.

OFFICERS.

ELIAKIM H. MOORE, *President.*

MAXIME BÔCHER, FRANK MORLEY, } *Vice-Presidents.*

F. N. COLE, *Secretary.*

W. S. DENNETT, *Treasurer.*

D. E. SMITH, *Librarian.*

F. N. COLE, ALEXANDER ZIWET, FRANK MORLEY, } *Committee of Publication.*

EX-OFFICIO MEMBERS.

J. H. VAN AMRINGE, EMORY MCCLINTOCK, G. W. HILL, SIMON NEWCOMB, R. S. WOODWARD.

OTHER MEMBERS.

To Serve until December, 1902.

OSKAR BOLZA, E. W. HYDE, L. A. WAIT.

To Serve until December, 1903.

E. W. BROWN, H. B. FINE, T. F. HOLGATE, W. F. OSGOOD.

To Serve until December, 1904.

POMEROY LADUE, G. A. MILLER, P. F. SMITH. E. B. VAN VLECK,

MEMBERS OF THE SOCIETY.

JANUARY 1, 1902.

Date of Admission. Life members are designated by *.

1892, Nov. ABBE, CLEVELAND, B.Sc., M.A., Ph.D., LL.D.; Member of the National Academy of Sciences; Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Monthly Weather Review;* Professor of Meteorology, U. S. Weather Bureau; Professor of Meteorology, Columbian University, Washington, D. C.; Lecturer in Meteorology, Johns Hopkins University, Baltimore, Md. *U. S. Weather Bureau*, Washington, D. C.

1891, Nov. ALEY, ROBERT JUDSON, M.A., Ph.D. (Pennsylvania); Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; Professor of Mathematics, University of Indiana, Bloomington, Ind. *203 Forest Place.*

1901, Dec. ALLARDICE, ROBERT EDGAR, M.A.; Fellow of the Royal Society of Edinburgh; Member of the Edinburgh Mathematical Society; Professor of Mathematics, Stanford University, Cal.

1897, Dec. ALLEN, JOSEPH, M.A.; Instructor in Mathematics, College of the City of New York. *130 East 27th Street*, New York, N. Y.

1901, Dec. ANDREWS, GRACE, B.Sc., Ph.D. (Columbia); Assistant in Mathematics, Columbia University, New York, N. Y. *125 East 57th Street.*

1901, Oct. ASHTON, CHARLES HAMILTON, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *31 Maple Avenue.*

1891, June BAKER, ALFRED, M.A.; Fellow of the Royal Society of Canada; Member of the Société Mathématique de France; Professor of Mathematics, University of Toronto, Toronto, Canada.

1891, Feb. BAKER, ARTHUR LATHAM, C.E., Ph.D.; Professor of Mathematics, Manual Training High School, Brooklyn, N. Y. *15 Gramercy Park*, New York, N. Y.

Date of Admission.	
1898, Feb.	BAKER, HENRY FREDERICK, M.A.; F.R.S.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; Fellow and Lecturer of St. John's College, Cambridge, England. *4 Belvoir Terrace, Trumpington Road.*
1891, Apr.	BAKER, MARCUS, M.A.; Cartographer, U. S. Geological Survey, Washington, D. C.
1894, Oct.	BARNUM, CHARLOTTE CYNTHIA, B.A., Ph.D. (Yale); U. S. Coast and Geodetic Survey, Washington, D. C.
1892, Apr.	BARTON, SAMUEL MARX, B.A., Ph.D.; Professor of Mathematics, University of the South, Sewanee, Tenn.
1891, Apr.	BASS, EDGAR WALES, Graduate of the U. S. Military Academy; Colonel U. S. Army, retired. *524 Fifth Avenue,* New York, N. Y.
1900, Dec.	BAUER, GEORGE NEANDER, M.Sc., Ph.D. (Columbia); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.
1899, Dec.	BEEBE, WILLIAM, M.A.; Professor of Mathematics, Yale University, New Haven, Conn. *262 Bradley Street.*
1891, Apr.	BEMAN, WOOSTER WOODRUFF, M.A.; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *813 East Kingsley Street.*
1901, Oct.	BENEDICT, HARRY YANDELL, M.A., Ph.D. (Harvard); Adjunct Professor of Mathematics and Astronomy, University of Texas, Austin, Texas.
1900, Dec.	BENTON, JOHN ROBERT, B.A., B.Sc., Ph.D., (Göttingen); Assistant in Physics, Cornell University, Ithaca, N. Y. *112 Lake Street.*
1897, Feb.	* BERRY, ARTHUR, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; F.R.A.S.; Fellow and Assistant Tutor in Mathematics, King's College, Cambridge, England.
1901, Apr.	BLACK, CHARLES WILLIAM MCGOWAN, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Oregon, Eugene, Ore. *428 East 12th Street.*
1891, Dec.	BLAKE, EDWIN MORTIMER, E.M., Ph.D. (Columbia); Member of the Société Mathématique de France; Instructor in Mathematics, University of California, Berkeley, Cal. *1910 Addison Street.*
1900, Dec.	BLICHFELDT, HANS FREDERIK, M.A., Ph.D. (Leipsic); Assistant Professor of Mathematics, Stanford University, Cal.

Date of Admission.	
1900, Dec.	BLISS, GILBERT AMES, B.A., M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.
1892, Apr.	BÔCHER, MAXIME, B.A., Ph.D. (Göttingen); Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *14 Avon Street.*
1899, Oct.	BOGARTE, MARTIN EUGENE, M.A.; Professor of Mathematics, Northern Indiana Normal School, Valparaiso, Ind. *College Avenue and Locust Street.*
1891, Nov.	BOLZA, OSKAR, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Chicago, Chicago, Ill.
1898, Dec.	BOUTON, CHARLES LEONARD, M.Sc., M.A., Ph.D., (Leipsic); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Instructor in Mathematics, Harvard University, Cambridge, Mass. *503 Craigie Hall.*
1900, Dec.	BOWDEN, JOSEPH, B.A., Ph.D. (Yale); Professor of Mathematics, Adelphi College, Brooklyn, N. Y. *18 Clifton Place.*
1891, June	BOWSER, EDWARD ALBERT, C.E., LL.D.; Professor of Mathematics, Rutgers College, New Brunswick, N. J.
1901, Dec.	BRASEFIELD, STANLEY EUGENE, C.E., M.Sc.; Instructor in Mathematics and Civil Engineering, Michigan State Agricultural College. *Agricultural College,* Mich.
1901, Dec.	BROOKE, WILLIAM ELLSWORTH, B.C.E., M.A.; Instructor in Mathematics, University of Minnesota, Minneapolis, Minn.
1891, June	BROOKS, JOHN MILTON, M.A.; Instructor in Mathematics, John C. Green School of Science, Princeton University, Princeton, N. J. *2 West Witherspoon Hall.*
1893, Dec.	BROWN, EDWARD LEROY, M.A.; Principal of the North Side High School, Denver, Col. *2623 West 27th Avenue.*
1892, Feb.	* BROWN, ERNEST WILLIAM, M.A., Sc.D. (Cambridge); F.R.S.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; F.R.A.S.; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Haverford College, Haverford, Pa.
1900, Oct.	BROWN, GEORGE LINCOLN, M.Sc., Ph.D. (Chicago); Professor of Mathematics and Astronomy, South Dakota Agricultural College, Brookings, South Dakota.

Date of Admission.	
1899, Aug.	*Bullard, Warren Gardner, B.A., Ph.D. (Clark); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. *722 Irving Avenue.*
1891, June	Bullis, Abram Rogers, B.Sc., B.C.E. Macedon, Wayne County, N. Y.
1891, Apr.	Byerly, William Elwood, M.A., Ph.D. (Harvard); Editor of the *Annals of Mathematics;* Professor of Mathematics, Harvard University, Cambridge, Mass. *39 Hammond Street.*
1891, June	Cain, William, C.E., M.A.; Professor of Mathematics, University of North Carolina, Chapel Hill, N. C.
1899, Apr.	Cajori, Florian, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Colorado College, Colorado Springs, Colo. *1119 Wood Avenue.*
1900, Dec.	Campbell, Donald Francis, Ph.D. (Harvard); Associate Professor of Mathematics, Armour Institute of Technology, Chicago, Ill. *3344 Dearborn Street.*
1897, Oct.	Capron, Paul, M.A.; Teacher of Mathematics, Dummer Academy, South Byfield, Mass.
1896, Apr.	Chace, Arnold Buffum, M.A., D.Sc. (Brown); Valley Falls, R. I.
1891, May	Chandler, Charles Henry, M.A.; Professor of Mathematics, Ripon College, Ripon, Wis.
1895, Nov.	Chessin, Alexander S., M.A., C.E., Ph.D.; Professor of Mathematics, Washington University, St. Louis, Mo.
1895, Nov.	Chittenden, J. Brace, B.Sc., M.A., Ph.D. (Königsberg); Professor of Mathematics, Brooklyn Polytechnic Institute, Brooklyn, N. Y.
1891, Apr.	Clark, John Emory, M.A.; Emeritus Professor of Mathematics, Yale University, New Haven, Conn. *445 Orange Street.*
1900, Dec.	Clarke, John Eastman, B.A., Ph.D.; (Boston University); Principal of the Gilbert School, Winsted, Conn.
1896, Sept.	Clutz, Frank Hollinger, B.A., Ph.D. (Johns Hopkins); Civil Engineer, Union Pacific Railroad, Kansas City, Mo. *Atchison, Kans.*
1893, Feb.	Cohen, Abraham, B.A., Ph.D. (Johns Hopkins); Co-editor of the *American Journal of Mathematics;* Associate in Mathematics, Johns Hopkins University, Baltimore, Md.

Date of Admission.	
1891, Apr.	COLE, FRANK NELSON, B.A., Ph.D. (Harvard); Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.
1899, Dec.	COLLINS, JOSEPH VICTOR, Ph.B., Ph.D.; Teacher of Mathematics, State Normal School, Stevens Point, Wis. *217 Division Street.*
1898, Feb.	COMSTOCK, ELTING HOUGHTALING, B.Sc.; Principal of High School, Houghton, Mich. *P. O. Box 221.*
1892, Oct.	CONANT, LEVI LEONARD, M.A., Ph.D.; Editor of the *Journal of the Worcester Polytechnic Institute;* Professor of Mathematics, Worcester Polytechnic Institute, Worcester, Mass.
1900, Dec.	CONOSCENTE, EUPLIO, B.Sc., Math.D. (Palermo); Member of the Circolo Matematico di Palermo. Newark, N. J. *10 Mulberry Place.*
1900, June	COOLIDGE, JULIAN LOWELL, B.A., B.Sc.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *10 Craigie Street.*
1900, Dec.	CRATHORNE, ARTHUR R., B.A.; Assistant in Mathematics, University of Wisconsin, Madison, Wis. *1112 West Johnson Street.*
1891, Apr.	CRAWLEY, EDWIN SCHOFIELD, B.Sc., Ph.D.; Thomas A. Scott Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1891, Dec.	CUNNINGHAM, SUSAN J., Professor of Mathematics and Astronomy, Swarthmore College, Swarthmore, Pa.
1900, Dec.	CURJEL, HARALD WORTHINGTON, M.A.; Member of the London Mathematical Society; Birkdale, Southport, Lancashire, England. *18 Welbeck Road.*
1900, Oct.	DAVIS, CHARLES HENRY, C.E.; Consulting Engineer. *99 Cedar Street,* New York, N. Y.
1891, Apr.	DAVIS, ELLERY WILLIAMS, B.Sc., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the College of Literature, Science and the Arts, University of Nebraska, Lincoln, Neb.
1891, Oct.	DAVIS, JOHN WOODBRIDGE, C.E., Ph.D. *523 West 173d Street,* New York, N. Y.
1891, Apr.	DAVIS, NATHANIEL FRENCH, M.A., LL.D.; Professor of Pure Mathematics, Brown University, Providence, R. I. *159 Brown Street.*
1900, Dec.	DEFOE, LUTHER MARION, Assistant Professor of Mathematics, University of Missouri, Columbia, Mo.
1891, May	DELONG, IRA MITCHELL, M.A.; Professor of Mathematics, University of Colorado, Boulder, Colo. *1341 12th Street.*

Date of Admission.

1895, Jan. DeLury, Alpred Tennyson, B.A.; Lecturer in Mathematics, University of Toronto, Toronto, Can.

1892, Jan. Dennett, William Sawyer, B.A., M.D. *8 East 49th Street*, New York, N. Y.

1896, Nov. Dickson, Leonard Eugene, B.Sc., M.A., Ph.D. (Chicago); Member of the London Mathematical Society; Assistant Professor of Mathematics, University of Chicago, Chicago, Ill.

1897, Apr. Dowling, Linnæus Wayland, Ph.D. (Clark); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wis. *University Heights.*

1901, Feb. Downey, John F., C.E., M.S., M.A.; Professor of Mathematics, University of Minnesota, Minneapolis, Minn.

1891, Apr. Durell, Fletcher, B.A., Ph.D.; Master in Mathematics, Lawrenceville School, Lawrenceville, N. J.

1891, Apr. Durfee, William Pitt, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics and Dean of the Faculty, Hobart College, Geneva, N. Y. *639 Main Street.*

1900, Dec. Easton, Burton Scott, B.Sc., Ph.D. (Pennsylvania); Senior Fellow in Mathematics, University of Pennsylvania, Philadelphia, Pa. *224 South 43d Street.*

1891, Apr. Echols, William Holding, B.Sc.; Professor of Mathematics, University of Virginia, Charlottesville, Va.

1891, Apr. Eddy, Henry Turner, C.E., M.A., Ph.D., LL.D.; Professor of Engineering and Mechanics, University of Minnesota, Minneapolis, Minn. *916 Sixth Street, S. E.*

1896, Dec. Edmondson, Thomas William, B.A., Ph.D. (Clark); Assistant Professor of Physics, New York University, University Heights, New York, N. Y.

1897, Feb. Eiesland, John, B.Ph., Ph.D. (Johns Hopkins); Professor of Mathematics, Thiel College, Greenville, Pa.

1894, June Eimbeck, William; Assistant in the U. S. Coast and Geodetic Survey, Washington, D. C.

1900, Dec. Eisenhart, Luther Pfahler, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Princeton University, Princeton, N. J. *13 Bank Street.*

1898, Feb. *Elliott, Edwin Bailey, M.A.; F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Wayneflete Professor of Pure Mathematics and Fellow of Magdalen College, Oxford, England. *4 Bardwell Road.*

1891, May Ely, Achsah Mount, B.A.; Professor of Mathematics, Vassar College, Poughkeepsie, N. Y.

Date of Admission.

1896 Nov. EMCH, ARNOLD, M.Sc., Ph.D. (Kansas); Assistant Professor of Pure and Applied Mathematics, University of Colorado, Boulder, Col.

1898, Apr. ENGBERG, CARL CHRISTIAN, B.Sc., M.A., Ph.D. (Nebraska); Instructor in Mathematics, University of Nebraska, Lincoln, Neb.

1892, Mar. ENGLER, EDMUND ARTHUR, M.A., Ph.D., LL.D.; President of the Worcester Polytechnic Institute, Worcester, Mass. *11 Boynton Street.*

1898, Oct. ESCOTT, EDWARD BRIND, M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *718 Monroe Street.*

1901, Dec. ESTY, THOMAS CUSHING, M.A.; Associate Professor of Mathematics, University of Rochester, Rochester, N. Y.

1891, May ESTY, WILLIAM COLE, LL.D.; Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass.

1899, Feb. FAUGHT, JOHN BROOKIE, M.A., Ph.D.; Professor of Mathematics, Michigan Northern State Normal School, Marquette, Mich. *211 East Hewitt Avenue.*

1901, Feb. FERRY, FREDERICK CARLOS, M.A., Ph.D. (Clark); Assistant Professor of Mathematics, Williams College, Williamstown, Mass.

1900, June FIELD, PETER, M.S.; Professor of Mathematics and Astronomy, Carthage College, Carthage, Ill. *927 East State Street,* Ithaca, N. Y.

1891, May FIELDS, JOHN CHARLES, Ph.D. (Johns Hopkins); Member of the Société Mathématique de France. *21 Liberty Street,* Hamilton, Canada.

1901, Oct. FINDLAY, WILLIAM, M.A., Ph.D. (Chicago); Tutor in Mathematics, Columbia University, New York, N. Y.

1891, May FINE, HENRY BURCHARD, M.A., Ph.D. (Leipsic); Professor of Mathematics, Princeton University, Princeton, New Jersey.

1891, June FINKEL, BENJAMIN FRANKLIN, M.A., M.Sc.; Member of the London Mathematical Society; Editor of the *American Mathematical Monthly;* Professor of Mathematics and Physics, Drury College, Springfield, Mo. *1227 Clay Street.*

1899, Feb. FISHBURNE, EDWARD BELL, JR., Ph.B., M.A.; President of the Hoge Military Academy, Blackstone, Va.

1891, Oct. FISHER, GEORGE EGBERT, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

Date of Admission.

1895, Jan. FISHER, IRVING, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. *460 Prospect Street.*

1888, Nov. FISKE, THOMAS SCOTT, M.A., Ph.D. (Columbia); Member of the London Mathematical Society; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.

1897, Feb. FITCH, ANNIE LOUISE MACKINNON, M.S., Ph.D.; Clinton, N. Y.

1901, Oct. FITE, WILLIAM BENJAMIN, Ph.D. (Cornell); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *110 Cook Street.*

1894, Oct. FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C.

1900, Feb. FOCKE, ANNE BOSWORTH, B.S., Ph.D. (Göttingen); *106 Cutler Street,* Cleveland, O.

1900, Apr. FORD, ROBERT DALE, M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y.

1899, Aug. FORD, WALTER B., M.A.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *718 Monroe Street.*

1899, Dec. FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin, Victoria), LL.D.; F.R.S.; Corresponding Associate of the Reale Instituto Lombardo; Member of the London Mathematical Society; Member of Cambridge Philosophical Society; F.R.A.S.; Sadlerian Professor of Pure Mathematics and Fellow of Trinity College, Cambridge University, Cambridge, England.

1893, Dec. FRANKLAND, FREDERICK WILLIAM, F.I.A.; Member of the Actuarial Society of America; Associate Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.

1892, Dec. FRANKLIN, FABIAN, Ph.B., Ph.D. (John Hopkins); Member of the London Mathematical Society. *1507 Park Avenue,* Baltimore, Md.

1897, Mar. FREELAND, WILLIAM, B.A. *27 West 44th Street,* New York, N. Y.

1895, Nov. FRIZELL, ARTHUR BOWES, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *1200 Massachusetts Avenue.*

1892, Oct. GABLE, GEORGE DANIEL, M.A., Ph.D.; Hunt Professor of Mathematics, Parsons College, Fairfield, Iowa.

Date of Admission.

1899, Oct. GALE, ARTHUR SULLIVAN, B.A., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *440 Edgewood Avenue.*

1899, Aug. GATES, FANNY COOK, M.L.; Associate Professor of Physics, The Woman's College, Baltimore, Md.

1894, Feb. GENTRY, RUTH, B.Ph., Ph.D. (Bryn Mawr); Associate Professor of Mathematics, Vassar College, Poughkeepsie, N. Y.

1897, Dec. GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Registrar of Columbia University, New York, N. Y.

1901, Feb. GERRANS, HENRY TRESAWNA, M.A.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Fellow and Tutor of Worcester College, Oxford, Eng.

1891, Jan. GILMAN, GEORGE HOUGHTON, M.A., LL.B. *41 Wall Street,* New York, N. Y.

1892, June GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; F.R.S.; F.R.A.S.; Editor of the *Messenger of Mathematics* and of the *Quarterly Journal of Pure and Applied Mathematics;* Fellow of Trinity College, Cambridge, England.

1891, May GLASHAN, JOHN CADENHEAD, LL.D.; Inspector of Public Schools, School Inspector's Office, Ottawa, Canada.

1896, Nov. GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1209 South University Avenue.*

1897, Oct. GORE, JOHN KINSEY, M.A.; Member of the Actuarial Society of America; Actuary of the Prudential Insurance Company, Newark, N. J.

1897, May GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *487 Orange Street.*

1891, June GREEN, RUFUS LOT, B.Sc., M.A.; Professor of Mathematics, Stanford University, Cal.

1897, Oct. *GREENHILL, ALFRED GEORGE, M.A.; F.R.S.; Member of the London Mathematical Society; Professor of Mathematics, Ordnance College, Woolwich, England.

1900, June GREENSTREET, WILLIAM JOHN, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Editor of the *Mathematical Gazette;* Headmaster of the Marling School, Stroud, England.

1901, Oct. GREENWOOD, GEORGE WILLIAM, A.B.; Professor of Mathematics and Astronomy, McKendree College, Lebanon, Ill.

1893, Dec. GRIFFITHS, IDA, B.A. *15 West 86th Street,* New York, N. Y.

Date of Admission.

1899, Oct. GROAT, BENJAMIN FELAND, B.Sc.; Assistant Professor of Mathematics and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn.

1894, June GUMMERE, HENRY VOLKMAR, B.Sc., M.A.; Professor of Mathematics, Physics, and Astronomy, Ursinus College, Collegeville, Montgomery County, Pa.

1894, Aug. HAGEN, JOHN GEORGE, S.J.; Director of the Georgetown College Observatory, Washington, D. C. *Georgetown University.*

1891, Nov. HALL, ASAPH, JR., B.A., Ph.D. (Yale); Member of the Astronomische Gesellschaft, Professor of Astronomy and Director of the Observatory, University of Michigan, Ann Arbor, Mich.

1892, Apr. HALL, TOMAS PROCTOR, Ph.D. (Clark); Professor of Physics, Kansas City University, Kansas City, Kan. *91 Lincoln Avenue,* Chicago, Ill.

1894, Oct. HALLETT, GEORGE HERVEY, M.A., Ph.D.; Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*

1891, May HALSTED, GEORGE BRUCE, M.A., Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the London Mathematical Society; Co-editor of *Le Matematiche;* Professor of Mathematics, University of Texas, Austin, Texas. *2407 Guadalupe Street.*

1899, Aug. HAMMERSLOUGH, CARRIE, M.A. *1215 Madison Avenue,* New York, N. Y.

1901, Oct. HANAWALT, FRANCIS WAYLAND, M.A.; Professor of Mathematics and Astronomy, Iowa Wesleyan University, Mount Pleasant, Ia. *403 North White Street.*

1895, Apr. HANCOCK, HARRIS, B.A., Ph.D. (Berlin), D.Sc. (Paris); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *Auburn Hotel, Mount Auburn.*

1900, Dec. HANNA, ULYSSES S., M.A.; Assistant Professor of Mathematics, Indiana University, Bloomington, Ind. *828 Atwater Avenue.*

1894, Feb. HARDCASTLE, FRANCES, Member of the London Mathematical Society. *14 Huntingdon Road,* Cambridge, England.

1891, May. * HARKNESS, JAMES, M.A.; Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

Date of Admission.

1891, Apr. HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me.

1899, Dec. HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Associate Professor of Mathematics, University of California, Berkeley, Cal. *P. O. Box 3.*

1891, May HATHAWAY, ARTHUR STAFFORD, B.Sc.; Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. *2206 North 10th Street.*

1901, Feb. HAVILAND, EDWIN, JR.; B.S., M.A.; Professor of Mathematics, Clarkson School of Technology, Potsdam, N. Y. *P. O. Box 253.*

1898, Aug. HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *Bühlstrasse 7*, Göttingen, Germany.

1894, Aug. HAY, GUSTAVUS, B.A., M.D. (Harvard). *383 Marlborough Street, Boston, Mass.*

1901, Aug. HEDRICK, EARL RAYMOND, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *294 Lawrence St.*

1900, Dec. HEWES, LAWRENCE ILSLEY, B.Sc., Ph.D. (Yale); Professor of Mathematics, Rhode Island College of Agriculture and Mechanic Arts, Kingston, R. I.

1892, Dec. HILL, GEORGE WILLIAM, Ph.D., Sc.D. (Cambridge), LL.D. EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Associate of the Royal Astronomical Society. West Nyack, N. Y.

1895, Nov. HILL, JOHN ETHAN, Ph.D. (Clark); Instructor in Mathematics, University of West Virginia, Morgantown, W. Va.

1898, Dec. HIMOWICH, ADOLPH A., M.Sc., M.D. *130 Henry Street*, New York, N. Y.

1894, Mar. HITCHCOCK, FANNY R. M., Ph.D.; Director of Women Students, University of Pennsylvania, Philadelphia, Pa. *4038 Walnut Street.*

1895, Feb. HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark); Professor of Applied Mathematics, Northwestern University, Evanston, Ill. *617 Hamline Street.*

1889, June HOLLADAY, WALLER, B.Sc., C.E., M.E.; Emeritus Professor of Mathematics, Cooper Institute; Mathematician of the Equitable Life Assurance Society, *120 Broadway*, New York, N. Y.

1891, May HOWE, CHARLES SUMNER, M.Sc., Ph.D.; Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio.

Date of Admission.	
1891, May	HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Director of the Chamberlin Observatory of the University of Denver, University Park, Col.
1891, May	HULBURT, LORRAIN SHERMAN, B.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1901, Oct.	HUNTINGTON, EDWARD VERMILYE, M.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereiningung; Instructor in Mathematics, Harvard University, Cambridge, Mass. *35 Fairfax Hall.*
1891, Apr.	HUSSEY, WILLIAM J., B.Sc.; Astronomer in the Lick Observatory, Mt. Hamilton, Cal.
1896, Nov.	HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1891, May	HYDE, EDWARD WYLLYS, C.E. *814 Lincoln Avenue, Station D,* Cincinnati, O.
1891, June	IRELAND, OSCAR BROWN, M.A.; President of the Actuarial Society of America; Actuary of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 1608.*
1901, Dec.	JACKSON, LAMBERT LINCOLN, M.A.; Head of the Department of Mathematics, State Normal School, Brockport, N. Y. *127 Monroe Avenue.*
1892, Jan.	JACOBUS, DAVID S., M.E.; Professor of Experimental Mechanics and Engineering Physics, Stevens Institute of Technology, Hoboken, N. J.
1888, Nov.	JACOBY, HAROLD, Ph.D. (Columbia); Member of the Astronomische Gesellschaft; F.R.A.S.; Adjunct Professor of Astronomy, Columbia University, New York, N. Y. *333 West 76th Street.*
1893, Feb.	JAMES, JOHN NELSON, B.A. Halle, Germany. *Karlstrasse 23*[1].
1897, April	JOFFE, S. A., M.Sc.; Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.
1891, Mar.	JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.
1899, Oct.	KASNER, EDWARD, M.A., Ph.D. (Columbia); Tutor in Mathematics, Columbia University, New York, N. Y. *121 East 114th Street.*

Date of Admission.

1891, Dec. KENNELLY, A. E., D.Sc.; F.R.A.S. *1420 Chestnut Street,* Philadelphia, Pa.

1900, Dec. KENYON, ALFRED MONROE, M.A.; Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *409 University Avenue,* West Lafayette.

1897, Aug. KEPPEL, HERBERT G., Ph.D. (Clark); Member of the Amsterdam Mathematical Society; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1914 Orrington Avenue.*

1892, Oct. KERR, WILLIAM JASPER, D.Sc.; President of the Agricultural College of Utah, Logan, Utah.

1891, Apr. KERSHNER, JEFFERSON E., M.A., Ph.D. (Yale); Professor of Mathematics, Franklin and Marshall College, Lancaster, Pa. *337 West Walnut Street.*

1897, Aug. KEYSER, CASSIUS JACKSON, B.Sc., M.A., Ph.D. (Columbia); Instructor in Mathematics, Columbia University, New York, N. Y.

1891, Dec. KNISELY, ALEXANDER, B.Sc. Logansport, Ind.

1901, Oct. KUHN, HARRY WALDO, Ph.D. (Cornell); Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio. *234 West 10th Avenue.*

1894, Apr. * LADUE, POMEROY, B.Sc.; Professor of Mathematics, New York University, New York, N. Y. *University Heights.*

1893, Dec. LAMBERT, PRESTON ALBERT, M.A.; Assistant Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 South Center Street.*

1897, Jan. LANDIS, WILLIAM WEIDMAN, M.A.; Professor of Mathematics, Dickinson College, Carlisle, Pa.

1898, Apr. LANZA, GAETANO, B.Sc., C. and M.E.; Professor of Theoretical and Applied Mechanics, in charge of the Department of Mechanical Engineering, Massachusetts Institute of Technology, Boston, Mass.

1897, May LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.

1889, Dec. LEGRAS, GUSTAVE, M.Sc.; Assistant Professor of Mathematics, College of the City of New York. *17 Lexington Avenue,* New York, N. Y.

1900, Oct. LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2924 Shattuck Avenue.*

Date of Admission.

1892, Feb. LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Associate Professor of Astronomy and Geodesy, and Director of the Students' Observatory, University of California, Berkeley, Cal. *2011 Bancroft Way.*

1891, May LEWIS, CHARLTON THOMAS, Ph.D. (New York University); Member of the Actuarial Society of America. *24 Nassau Street,* New York, N. Y.

1894, June LING, GEORGE HERBERT, Ph.D. (Columbia); Tutor in Mathematics, Columbia University, New York, N. Y. *242 West 135th Street.*

1900, Dec. LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Civil Engineering, University of Idaho, Moscow, Id.

1891, June LOUD, FRANK HERBERT, M.A., Ph.D. (Haverford); Professor of Mathematics, Colorado College, Colorado Springs, Col. *703 South 10th Street.*

1901, Feb. LOVE, AUGUSTUS EDWARD HOUGH, M.A., D.Sc. (Oxford); F.R.S.; Honorary Secretary of the London Mathematical Society; Sedleian Professor of Natural Philosophy, Oxford University, Oxford, Eng. *34 St. Margaret's Road.*

1891, Apr. LOVE, JAMES LEE, M.A.; Assistant Professor of Mathematics and Secretary of the Lawrence Scientific School, Harvard University, Cambridge, Mass. *16 University Hall.*

1894, Oct. LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipsic); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Princeton University, Princeton, N. J.

1896, Nov. * LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Captain, 6th U. S. Artillery, Manila, P. I.

1894, Oct. LYMAN, ELMER A., B.A.; Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.*

1889, Dec. * MCCLINTOCK, EMORY, M.A., Ph.D. (Wisconsin), LL.D.; EX-PRESIDENT; F.I.A.; Member of the Actuarial Society of America; Member of the London Mathematical Society; Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N.Y.

1891, May MCDOUGALL, ALEXANDER HIRAM, B.A.; Mathematical Master of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*

Date of Admission.

1897, Dec. McKay, Alexander Charles, B.A.; Professor of Mathematics, McMaster University, Toronto, Can.

1895, Nov. McKinney, Thomas Emery, M.A.; Professor of Mathematics and Astronomy, Marietta College, Marietta, O. *617 Wooster Street.*

1891, Apr. McMahon, James, M.A.; Member of the London Mathematical Society; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.*

1891, Apr. McNeill, Malcolm, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill.

1898, Dec. * Macaulay, Francis Sowerby, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette;* Mathematical Master, St. Paul's School, West Kensington, London, W., England.

1891, May Macfarlane, Alexander, M.A., D.Sc. (Edinburgh), LL.D.; Member of the Circolo Matematico di Palermo; Lecturer on Mathematical Physics, Lehigh University, South Bethlehem, Pa. *Gowrie Grove, Chatham, Ontario, Canada.*

1897, Dec. Mackay, John Sturgeon, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Master in the Edinburgh Academy. *69 Northumberland Street,* Edinburgh, Scotland.

1888, Nov. Maclay, James, C.E., Ph.D. (Columbia); Adjunct Professor of Mathematics, Columbia University, New York, N. Y.

1897, Jan. Maddison, Isabel, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Secretary to the President and Reader in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

1897, Aug. Maltbie, William Henry, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, The Woman's College, Baltimore, Md.

1900, June Manchester, James Eugene, B.Sc., D.Sc. (Tübingen); President of Vincennes University, Vincennes, Ind.

1891, Nov. Mann, Charles Riborg, M.A., Ph.D. (Berlin); Instructor in Physics, University of Chicago, Chicago, Ill.

1891, Nov. Manning, Henry Parker, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Pure Mathematics, Brown University, Providence, R. I.

Date of Admission.

1891, June MARKLEY, JOSEPH LYBRAND, M.A., Ph.D. (Harvard); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *912 Forest Avenue.*

1891, Apr. MARTIN, ARTEMAS, M.A., Ph.D., LL.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; U. S. Coast and Geodetic Survey Office, Washington, D. C. *1534 Columbia Street, N. W.*

1899, Dec. MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr). *623 North 18th Street,* Philadelphia, Pa.

1893, Feb. MASCHKE, HEINRICH, Ph.D. (Göttingen); Associate Professor of Mathematics, University of Chicago, Chicago, Ill. *5721 Monroe Avenue.*

1890, May MASON, JAMES WEIR, M.A.; Member of the Actuarial Society of America; Professor of Pure Mathematics, College of the City of New York, New York, N. Y.

1892, Mar. MENDIZÁBAL-TAMBORREL JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; F.R.A.S.; Member of the Astronomische Gesellschaft; Captain of Engineer Corps. *Sociedad "Alzate," Palma No. 13,* Mexico, D. F., Mexico.

1891, Apr. MERRIMAN, MANSFIELD, C.E., Ph.D.; Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa.

1889, June MESSENGER, HIRAM JOHN, Lit.B., Ph.D.; Member of the Actuarial Society of America; Actuary of the Travelers Insurance Company, Hartford, Conn.

1891, Oct. METZLER, WILLIAM H., B.A., Ph.D. (Clark); Corresponding Fellow of the Royal Society of Canada; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y.

1891, June MILLER, BLOOMFIELD JACKSON; Member of the Actuarial Society of America; Mathematician of the Mutual Benefit Life Insurance Company. *752 Broad Street,* Newark, N. J.

1891, May MILLER, EPHRAIM, M.A., Ph.D.; Professor of Mathematics and Astronomy, and Dean of the School of Arts, University of Kansas, Lawrence, Kan. *1244 Tennessee Street.*

1898, Apr. *MILLER, GEORGE A., Ph.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Stanford University, Cal. *P. O. Box 146.*

Date of Admission.

1899, Oct. MILLER, JOHN ANTHONY, M.A., Ph.D. (Chicago); Professor of Mechanics and Astronomy, University of Indiana, Bloomington, Ind. *334 South Dunn Street.*

1900, Dec. MILNE, EDWARD LAWRENCE, M.Sc.; Instructor in Mathematics, University of Illinois, Champaign, Ill. *307 West Hill Street.*

1900, Dec. MITCHELL, HENRY BEDINGER, E.E., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y. *Linden Hill, Flushing, New York, N. Y.*

1891, May MOODY, WILLIAM ALBION, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*

1891, May MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale; Göttingen, honorary); Member of the National Academy of Sciences; Member of the Circolo Matematico di Palermo; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5617 Washington Avenue.*

1896, May MORE, LOUIS TRENCHARD, B.Sc., Ph.D. (Johns Hopkins); Professor of Physics, University of Cincinnati, Cincinnati, O.

1891, May MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Editor of the *Bulletin of the American Mathematical Society;* Editor of the *American Journal of Mathematics;* Professor of Mathematics, Johns Hopkins University, Baltimore, Md.

1900, Feb. MOULTON, FORREST RAY, B.A., Ph.D. (Chicago); F.R.A.S.; Instructor in Astronomy, University of Chicago, Chicago, Ill.

1900, Dec. *MUKHOPÂDHYAÝ, ASUTOSH, M.A., LL.D.; Member of the Société Mathématique de France; Member of the Edinburgh Mathematical Society; Member of the Circolo Matematico di Palermo; F.R.A.S.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta, Calcutta, India; Professor of Mathematics at the Indian Association for the Cultivation of Science. *77 Russa Road North,* Bhowanipore, Calcutta.

1898, Oct. MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Peter Cooper High School, New York, N. Y.

1890, Dec. MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Dalhousie College, Halifax, N. S.

Date of Admission.

1891, June NELSON, ALFRED BRIERLEY, M.A., M.D.; Professor of Mathematics, Centre College, Danville, Ky. *443 Lexington Street.*

1895, Dec. NEUFELD, JULIUS L., E.E.; Assistant Professor of Mathematics, Central High School, Philadelphia, Pa. *1905 Venango Street.*

1891, Nov. NEWCOMB, SIMON, D.Sc., Ph.D., LL.D., D.C.L.; EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Institute of France; Foreign Associate of the Royal Astronomical Society; President of the Astronomical and Astrophysical Society; Co-Editor of the *American Journal of Mathematics;* Associate Editor of *Science;* Emeritus Professor of Mathematics and Astronomy, Johns Hopkins University; Professor of Mathematics, U. S. Navy, retired. *1620 P Street,* Washington, D. C.

1891, Oct. NEWSON, HENRY BYRON, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Editor of the *Kansas University Quarterly;* Associate Professor of Mathematics, University of Kansas, Lawrence, Kan.

1897, Jan. NEWSON, MARY WINSTON, B.A., Ph.D. (Göttingen). *1702 Massachusetts Street,* Lawrence, Kan.

1899, Aug. NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Assistant Professor of Mathematics, Hamilton College, Clinton, N. Y.

1900, Dec. NICHOLS, WALTER SMITH, M.A.; Member of the Actuarial Society of America; Editor of the *Insurance Monitor* and *Insurance Law Journal. 100 William Street,* New York, N. Y.

1891, June NICHOLSON, JAMES WILLIAM, M.A., LL.D.; Professor of Mathematics, Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La. *901 Convention Street.*

1899, Dec. NOBLE, CHARLES ALBERT, B.Sc., Ph.D. (Göttingen); Instructor in Mathematics, University of California, Berkeley, Cal. *2727 Bancroft Way.*

1891, Dec. OLDS, GEORGE DANIEL, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.

1891, Apr. OSBORNE, GEORGE ABBOTT, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.

Date of Admission.	
1895, Feb.	OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *60 Walker Street.*
1894, Oct.	OSTERBERG, MAX, E.E., M.A. *11 Broadway,* New York, N. Y.
1900, Dec.	PAGE, JAMES MORRIS, M.A., Ph.D. (Leipsic); Professor of Mathematics, University of Virginia, Charlottesville, Va.
1897, May	PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *2531 Euclid Avenue.*
1894, Mar.	PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Professor of Physics, Central Manual Training School, Philadelphia, Pa. *17th and Wood Streets.*
1896, Dec.	PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.
1891, May	PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipsic); Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. *51 Oxford Street.*
1898, Oct.	PEIRCE, JAMES MILLS, M.A.; Perkins Professor of Astronomy and Mathematics, Harvard University, Cambridge, Mass. *4 Kirkland Place.*
1898, Oct.	PELL, ALEXANDER, Ph.D. (Johns Hopkins); Professor of Mathematics, University of South Dakota, Vermillion S. Dak.
1893, Oct.	PETTEGREW, DAVID LYMAN, General Special Agent of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 75, Worcester, Mass.*
1892, Oct.	PFISTER, JOSEPH CLEMENT, M.A.; Instructor in Mechanics, Columbia University, New York, N. Y.
1891, June	PHILBRICK, PHILETUS HARVEY, M.Sc., C.E.; Chief Engineer of the K. C. W. & G. Ry., Lake Charles, La.
1896, Nov.	PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *209 York Street.*
1894, Oct.	PIERPONT, JAMES, Ph.D. (Vienna); Professor of Mathematics, Yale University, New Haven, Conn. *42 Mansfield Street.*
1889, Dec.	PIERSON, ISRAEL CORIELL, M.A., Ph.D.; Member of the Actuarial Society of America; Actuary of the Washington Life Insurance Company of New York. *21 Cortland Street,* New York, N. Y.

Date of Admission.

1892, Nov. PLUMLEY, GARDNER LADD, Member of the Actuarial Society of America; Assistant Actuary of the Home Life Insurance Company. *256 Broadway*, New York, N. Y.

1890, Dec. POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S.; Editor of the *Annals of the New York Academy of Sciences*. *22 Thomas Street*, New York, N. Y.

1897, Feb. PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Instructor in Mathematics, Yale University, New Haven, Conn. *218 Mansfield Street.*

1892, May PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *142 Hamilton Street.*

1889, Dec. PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin); Professor of Electro-Mechanics, Columbia University, New York, N. Y.

1891, June PURYEAR, CHARLES, B.Sc., M.A., C.E.; Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Texas.

1891, June PUTNAM, KENDRICK S., M.A.; City Chamberlain, Rome, N. Y.

1901, Oct. RABINOVITCH, I. EUCLID, Ph.D. (Johns Hopkins). *130 Henry Street*, New York, N. Y.

1900, Feb. RADELFINGER, FRANK GUSTAVE, B.Sc.; Patent Attorney. *1431 Chapin Street*, Washington, D. C.

1894, Mar. RAND, JOHN HOLMES, M.A.; Professor of Mathematics, Bates College, Lewiston, Me. *28 Frye Street.*

1898, Oct. RANUM, ARTHUR, B.A.; Professor of Mathematics and Astronomy, University of Washington, Seattle, Washington. *4730 14th Avenue, N. E.*

1891, Dec. RAYSON, AMY, B.A.; Joint Principal of School for Girls, New York, N. Y. *176 West 75th Street.*

1901, Aug. REAVES, SAMUEL WATSON, B.S., B.A.; Assistant Professor of Mathematics, Clemson College, S. C.

1888, Nov. REES, JOHN KROM, M.A., E.M., Ph.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Director of the Observatory, Columbia University, New York, N. Y.

1900, Apr. REID, LEGH WILBER, B.A., M.Sc., Ph.D. (Göttingen); Associate Professor of Mathematics, Haverford College, Haverford, Pa.

1893, Apr. RICE, CHARLES MOEN, B.A. Worcester, Mass. *P. O. Box 215.*

Date of Admission.		
1899,	Aug.	*Richmond, Herbert William, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Fellow and Lecturer of King's College, Cambridge, England.
1891.	Oct.	Rockwell, Charles Hall. Tarrytown, N. Y.
1891,	May	Rockwood, Charles Greene, Jr., M.A., Ph.D. (Yale); Professor of Mathematics, Princeton University, Princeton, N. J. *34 Bayard Lane.*
1896,	Apr.	Roe, Edward Drake, Jr., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Syracuse University, Syracuse, N. Y. *105 Anna Street.*
1897,	Feb.	Rothrock, David Andrew, M.A., Ph.D. (Leipsic); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Indiana, Bloomington, Ind.
1898,	Aug.	Safford, Frederick Hollister, M.A., Ph.D. (Harvard); Honorary Fellow in Mathematics, Clark University, Worcester, Mass.
1897,	Dec.	Saurel, Paul Louis, B.Sc., D.Sc. (Bordeaux); Instructor in Mathematics, College of the City of New York. *17 Lexington Avenue*, New York, N. Y.
1891,	Nov.	Sayre, Herbert Armistead, B.E., Ph.D. (Johns Hopkins); Professor of Physics, University of Alabama, University, Ala.
1894,	Mar.	Schlegel, Victor, Ph.D. (Leipsic); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Königliche Höhere Machinenbauschule, Hagen, Germany. *Volmestrasse, 62.*
1892,	Feb.	Schmiedel, Oscar, B.Sc., M.A.; Professor of Mathematics, Bethany College, Bethany, W. Va.
1895,	Mar.	Schmitt, Cooper Davis, M.A.; Professor of Mathematics, University of Tennessee, Knoxville, Tenn.
1900,	Oct.	Schottenfels, Ida May, Ph.M.; *1230 Amsterdam Avenue*, New York, N. Y.
1892,	Apr.	Schultze, Arthur, Ph.D.; Boys' High School, New York, N. Y.
1899,	Feb.	Schulz, Waldemar, Ph.D. (Halle); Instructor in German, University of Minnesota, Minneapolis, Minn.
1893,	Oct.	Schwatt, Isaac J., Ph.D.; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

Date of Admission.	
1891, May	SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Co-Editor of the *American Journal of Mathematics;* Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1889, June	SEARLE, REV. GEORGE MARY, M.A., Ph.D. Catholic University, Washington, D. C.
1895, Aug.	SEE, THOMAS JEFFERSON JACKSON, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Mathematics, U. S. Navy, Washington, D. C. *Naval Observatory.*
1899, Aug.	SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.
1892, June	SHACK, FERDINAND, B.Sc., M.A., LL.B. *56 Wall Street,* New York, N. Y.
1891, Apr.	SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.
1894, Mar.	SHAW, JAMES BYRNIE, M.Sc., D.Sc.; Associate Professor of Mathematics, Kenyon College, Gambier, Ohio.
1899, Oct.	SINGER, SIMON AUGUSTUS, B.A.; Professor of Mathematics. Capital University, Columbus, Ohio.
1899, Aug.	SKINNER, ERNEST BROWN, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wisconsin. *414 Charter Street.*
1899, Oct.	SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Chicago, Chicago, Ill. *5535 Madison Avenue.*
1901, Apr.	SLOCUM, STEPHEN ELMER, B.E., Ph.D. (Clark); Instructor in Applied Mathematics, University of Cincinnati, Cincinnati, Ohio.
1900, Oct.	SMITH, BURKE, B.Sc. *1136 Chapel Street,* New Haven, Conn.
1893, Oct.	SMITH, DAVID EUGENE, Ph.M., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
1898, Apr.	SMITH, EUGENE RANDOLPH, M.A.; Instructor in Mathematics, Montclair High School, Montclair, N. J. *75 Valley Road.*

Date of Admission.	
1891, May	SMITH, OTIS DAVID, M.A., LL.D.; Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala.
1891, Nov.	SMITH, PERCEY FRANKLYN, Ph.D.; Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *78 Pearl Street.*
1891, Apr.	SMITH, WILLIAM BENJAMIN, M.A., Ph.D.; (Göttingen); Professor of Mathematics, Tulane University, New Orleans, La.
1889, Dec.	SNOOK, THOMAS EDWARD, E.M.; Architect and Engineer. *261 Broadway*, New York, N. Y.
1895, Apr.	SNYDER, MONROE BENJAMIN, M.A.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Applied Mathematics and Head of the Department of Mathematics, Central High School, Philadelphia, Pa.; Director of the Philadelphia Observatory. *2402 North Broad Street.*
1896, Nov.	SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *204 University Avenue.*
1892, May	SQUIER, GEORGE OWEN, Ph.D. (Johns Hopkins); Lieutenant-Colonel, U. S. A. Signal Corps; First Lieutenant, 3d Artillery, U. S. A. *Army and Navy Club*, Washington, D. C.
1888, Nov.	STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia). *135 Willow Street*, Brooklyn, N. Y.
1894, Nov.	STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Instructor in Mathematics, Cornell University, Ithaca, N. Y. *113 Stewart Avenue.*
1891, Jan.	STEINMETZ, CHARLES PROTEUS, Electrician, General Electric Company, Schenectady, N. Y.
1891, June	ST. JOHN, HOWELL WILLIAMS, Ph.B.; Member of the Actuarial Society of America; Corresponding Member of the Institut des Actuaires Français; Actuary of the Ætna Life Insurance Company, Hartford, Conn. *P. O. Box 913.*
1891, May	STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics;* Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Charlottesville, Va.
1897, Feb.	STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipsic); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.

Date of Admission.

1895, Dec. STRONG, WENDELL MELVILLE, M.A., Ph.D. (Yale); Mutual Life Insurance Company of New York. *32 Nassau Street*, New York, N. Y.

1891, May *TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Assistant Professor of Mathematics, Clark University, Worcester, Mass.

1900, Dec. TALIAFERRO, THOMAS HARDY, C.E., Ph.D. (Johns Hopkins). *1208 Madison Avenue*, Baltimore, Md.

1901, Oct. TALLMAN, WILLIAM DUANE, B.Sc.; Professor of Mathematics, Montana State College of Agriculture and Mechanic Arts, Bozeman, Montana. *Lock Box 170.*

1896, Nov. *TANNER, JOHN HENRY, B.Sc., Ph.D.; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*

1889, Dec. TATLOCK, JOHN, JR., M.A.; F.R.A.S.; Associate Actuary of the Mutual Life Insurance Company of New York, New York, N. Y. *32 Nassau Street.*

1891, Apr. TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.

1899, Oct. THOMPSON, EDWARD PAYSON, M.A.; Professor of Mathematics and Astronomy, Miami University, Oxford, Ohio.

1891, Apr. *THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *80 University Place.*

1897, Jan. THORNBURG, CHARLES LEWIS, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *308 Packer Avenue.*

1901, Oct. TORY, HENRY M., M.A.; Mathematical Lecturer, McGill University, Montreal, Canada.

1895. Nov. TOWNSEND, EDGAR JEROME, Ph.D. (Göttingen); Associate Professor of Mathematics, University of Illinois, Champaign, Ill. *402 West Clark Street.*

1893, Nov. TURRELL, ISAAC HODGES, Principal of the Fourth District School, Cincinnati, O. *1503 Chase Avenue, North Side.*

1894, Aug. TYLER, HARRY WALTER, B.Sc., Ph.D. (Erlangen); Professor of Mathematics and Secretary of the Massachusetts Institute of Technology, Boston, Mass.

1897, Dec. UNDERHILL, MARY, M.Sc. *186 Christian Street*, Wallingford, Conn.

1888, Nov. VAN AMRINGE, J. HOWARD, M.A., Ph.D., L.H.D., LL.D.; EX-PRESIDENT; Professor of Mathematics and Dean of Columbia College, Columbia University, New York, N. Y. *26 West 25th Street.*

Date of Admission.	
1891, June	VAN VELZER, CHARLES AMBROSE, B.Sc., Ph.D.; Member of the London Mathematical Society; Professor of Mathematics, University of Wisconsin, Madison, Wis. *134 West Gorham Street.*
1893, Apr.	VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen); Professor of Mathematics, Wesleyan University, Middletown, Conn.
1891, Apr.	VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.
1900, June	VAUGHN, WILLIAM JAMES, M.A., LL.D.; Professor of Mathematics and Astronomy, Vanderbilt University, Nashville, Tenn.
1900, Dec.	VIVIAN ROXANA HAYWARD, B.A., Ph.D. (Pennsylvania); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *106 Gordon Avenue, Hyde Park, Mass.*
1890, May	VON NARDROFF, ERNEST ROBERT, E.M.; Head of the Science Department, Erasmus Hall High School, Brooklyn, N. Y.
1891, Oct.	WAIT, LUCIEN AUGUSTUS, B.A.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *35 East Avenue.*
1891, Apr.	WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Head Professor of Mathematics, Purdue University, Lafayette, Ind. *113 South Ninth Street.*
1898, Dec.	WALKER, BUZZ M., M.Sc.; Professor of Mathematics, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.
1894, Feb.	WALKER, LON CAIN, M.A.; Teacher of Mathematics, Petaluma High School, Cal.
1898, Apr.	WASHBURNE ALVA COURTENRY, Member of the Actuarial Society of America; Actuarial Division, Metropolitan Life Insurance Company. *1 Madison Avenue,* New York, N. Y.
1891, Oct.	WEBB, JOHN BURKITT, C.E.; Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J.
1891, May	WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin); Professor of Physics, Clark University, Worcester, Mass.
1891, June	WEEKS, RUFUS WELLS, Member of the Actuarial Society of America; Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.
1892, Feb.	WELD, LAENAS GIFFORD, B.Sc., M.A.; Professor of Mathematics and Astronomy and Dean of the Graduate College, State University of Iowa, Iowa City, Ia.

Date of Admission.	
1891, Apr.	WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1891, May	WENTWORTH, GEORGE ALBERT, M.A. Exeter, N. H.
1896, Sept.	WENTZ, ESTELLA KATE, M.Sc.; Instructor in Mathematics, Manual Training High School, Indianapolis, Ind.
1897, Feb.	WERNICKE, AUGUST LUDWIG PAUL; Professor of Modern Languages, State College of Kentucky, Lexington, Ky. *411 South Limestone Street.*
1897, Dec.	* WESTERN, ALFRED EDWARD, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. *36 Lancaster Gate*, London, W., England.
1899, Apr.	WESTFALL, JOHN VAN ETTEN, B.Sc., Ph.D. (Leipsic); Instructor in Mathematics, University of Iowa, Iowa City, Ia.
1898, Aug.	WESTLUND, JACOB, Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Purdue University, Lafayette, Ind. *222 Main Street, West Lafayette.*
1892, Nov.	WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Noyes Professor of Pure Mathematics, Northwestern University, Evanston, Ill. *P. O. Box 244.*
1891, June	WHITNEY, MARY WATSON, M.A.; Professor of Astronomy and Director of the Observatory, Vassar College, Poughkeepsie, N. Y.
1897, Dec.	* WHITTAKER, EDMUND TAYLOR, M.A.; Member of the London Mathematical Society; Secretary of the Royal Astronomical Society; Fellow and Lecturer of Trinity College, Cambridge, England.
1897, Feb.	WHITTEMORE, JAMES KELSEY, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *16 Claverly Hall.*
1899, Feb.	WILCZYNSKI, ERNST JULIUS, Ph.D. (Berlin); Instructor in Mathematics, University of California, Berkeley, Cal. *2337 Telegraph Avenue.*
1892, May	WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics, Pennsylvania State College, State College, Center Co., Pa.
1895, May	WILLIAMS, CLARKE BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *Ferdinand-Rhode Strasse 24, Leipsic, Germany.*
1892, May	WILLIAMS, ELLA CORNELLA, M.A. *133 West 56th Street*, New York, N. Y.

Date of Admission.

1898, Apr. WILLIAMS, WILLIAM HILL, M.A.; Chair of Mathematics, Wisconsin State Normal School, Platteville, Wis.

1891, May WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 63.*

1901, Oct. WILSON, ALBERT HARRIS, M.S.; Instructor in Mathematics, Princeton University, Princeton, N. J.

1899, Dec. WILSON, EDWIN BIDWELL, B.A., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *562 Yale Campus.*

1900, Dec. WILSON, NORMAN RICHARD, B.A.; Lecturer in Mathematics, Wesley College, University of Manitoba, Winnipeg, Canada.

1899, Dec. WOOD, RUTH GOULDING, B.Sc., Ph.D. (Yale); New Haven, Conn. Mount Holyoke College, South Hadley, Mass.

1895, Oct. WOODS, FREDERICK S., B.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *21 Church Street, Newton, Mass.*

1891, May WOODWARD, ROBERT SIMPSON, C.E., Ph.D. (Michigan); EX-PRESIDENT; Member of the National Academy of Sciences; Associate Editor of *Science;* Professor of Mechanics and Mathematical Physics and Dean of the School of Pure Science, Columbia University, New York, N. Y.

1891, May WORTHEN, THOMAS WILSON DORR, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.

1898, Oct. WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America; Consulting Life Insurance Actuary. *45 Milk Street, Room 77, Boston, Mass.*

1891, May YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Assistant Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. *5430 Washington Avenue.*

1893, Mar. YOWELL, EVERETT IRVING, M.Sc., C.E.; Computer at the Naval Observatory, Washington, D. C.

1891, Apr. ZIWET, ALEXANDER, C.E.: Editor of the *Bulletin of the American Mathematical Society;* Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.*

Number of members, January 1, 1902 375
Number of members, January 1, 1901 357
Members admitted during the year 1901 28
Members withdrawing during the year 1901 10
Number of life-members 18

CONSTITUTION.

Article I.

This Society shall be called the American Mathematical Society.

Article II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

Article III.

The officers of the Society shall be a President, two Vice-Presidents, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

Article IV.

The officers of the Society, the ex-Presidents, and twelve other members of the Society shall constitute a Council, which shall have general charge of the affairs of the Society.

Article V.

1. The officers of the Society and four other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The ex-Presidents of the Society shall be permanent members of the Council; the term of office otherwise shall, beginning with the Annual Meeting in 1900, be two years for the President, one year for other officers, and three years for other members of the Council, and until their successors shall be elected. After the Annual Meeting in 1900, for election as President shall be eligible those members of the Society who have served in the office of Vice-President and who are not holding office as President or Vice-President; and for election as Vice-President shall be eligible those members of the Society not holding office as President or

Vice-President. No elected member of the Council, having completed a term of three years, shall be reëlected until at least one year shall have intervened.

2. If the President of the Society die or resign before the expiration of his term of office, the council may designate one of the Vice-Presidents to serve as Acting President until the next Annual Meeting, when a President shall be elected by the Society. Such vacancies as may exist at any other time among the offices may be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting.

Article VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

BY-LAWS.

I.

The election of new members of the Society shall be by vote of the Council. Applications for admission shall be made by the applicant personally, on blanks provided by the Secretary, and shall be endorsed by two members of the Society. Such applications, being received at any meeting of the Council, shall be laid over for action at any subsequent meeting.

II.

1. Persons elected by the Council, as provided in By-Law I, shall be admitted to membership in the Society upon the payment, within sixty days of the date of their election, of an initiation fee of five dollars.

2. The annual dues shall be five dollars, payable on the 1st of January. Each new member shall pay in proportion to the unexpired fraction of the year, at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

3. On the payment of fifty dollars in one sum, exclusive of initiation fee, any member may become a life member and shall thereafter be exempt from all annual dues.

III.

The times and places of meetings of the Society shall be designated by the Council, but the Annual Meeting shall be held on a date between the 26th and 31st of December, inclusive; and Regular Meetings shall be held on the last Saturday of February, April, and October, unless otherwise ordered by the Council. Notice of the time and place of each meeting shall be sent by the Secretary to all members of the Society.

IV.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each Sectional meeting of such members of the Society as may be present; and the council shall have the right to withdraw such authorization.

V.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

VI.

1. The order of business at the meetings of the Society shall be as follows:

1. Reading of the minutes.
2. Recommendations and reports.
3. Elections.
4. Miscellaneous business.
5. Presentation and discussion of papers previously approved by the programme committee.

2. No questions relative to administration shall be considered at any meeting except the annual meeting, without the recommendation of the Council.

VII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting at which his term of office expires.

VIII.

1. The President may convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

IX.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

X.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. The three members of the committee appointed in 1899 shall serve respectively until 1902, 1903, and 1904. In and after 1902, annually at the February meeting, the Council shall appoint one member to serve for three years. Members of the committee shall be eligible to reappointment. Vacancies in the committee shall be filled by the Council.

3. The editorial committee shall have power to elect one of its members as editor-in-chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor-in-chief, the Council shall designate one of the members of the committee to act as editor-in-chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

XI.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

ANNUAL REPORTS.

REPORT OF THE TREASURER FOR THE YEAR 1901.

Receipts.

Balance from 1900, cash	$1,410 74	
Balance from life membership fund	750 00	
		$2,160 74
Annual payments for 1897		5 00
Annual payments for 1898		5 00
Annual payments for 1899		35 00
Annual payments for 1900		135 00
Annual payments for 1901		1,330 00
Annual payments for 1902		10 00
Payments for fractional parts of 1901		47 76
Initiation fees for 1900		105 00
Initiation fees for 1901		115 00
Life Membership fees		100 00
Sale of reprints		60 35
Sale of Bulletin through The Macmillan Company		212 52
Sale of Bulletin through the Secretary		3 10
Sale of Published Papers		3 00
Contributions in support of the Transactions:		
Bryn Mawr College		100 00
Columbia University		100 00
Cornell University		100 00
Harvard University		100 00
Haverford College		100 00
Northwestern University		100 00
Princeton University		100 00
The University of California		100 00
The University of Chicago		100 00
Yale University		100 00
Subscriptions to the Transactions ($3.75), for 1900		26 25
Subscriptions to the Transactions ($3.75), for 1901		221 25
Subscriptions to the Transactions ($3.75), for 1902		7 50
Subscriptions to the Transactions ($3.75), for 1903		3 75
Subscriptions to the Transactions ($4.50), for 1900		4 50
Subscriptions to the Transactions ($4.50), for 1901		126 00
Carried forward		$5,716 72

Brought forward	$5,716 72
Subscriptions to the TRANSACTIONS ($4.50), for 1902	9 00
Subscriptions to the TRANSACTIONS ($5.00), for 1901	50 00
Subscriptions to the TRANSACTIONS ($5.00), for 1902	5 00
Sale of single copies of TRANSACTIONS	28 32
Interest on deposit in Fifth Avenue Trust Company	50 20
Interest on Deposit in Savings Banks	13 12
Colloquium fees	34 50
Exchange	1 05
	$5,907 91

DISBURSEMENTS.

Expenses of the Secretary's office		$ 220 42
Expenses of the Treasurer's office		71 65
Expenses of the Chicago Section		49 06
Expenses of the Committee of Publication		33 94
Expenses of the Editorial Committee of the TRANSACTIONS		122 24
Publication of Bulletin (ten numbers)		1,064 46
Publication of TRANSACTIONS (five numbers)		2,136 38
Annual Register		66 67
Exchange		74
Library		7 25
		$3,772 81
Balance, Dec. 26th, 1901, cash	$1,247 92	
Balance, Dec. 26th, 1901, life membership fund	887 18	
		$2,135 10
		$5,907 91

WM. S. DENNETT,
Treasurer.

NEW YORK, December 27, 1901.

REPORT OF THE AUDITING COMMITTEE.

The Committee appointed by the AMERICAN MATHEMATICAL SOCIETY to audit the accounts of the Treasurer beg to report as follows:

We have examined the statement of receipts, including dues, initiation fees, life membership commutations and sales of publications, and find the same to be $5,907.91. We have examined the statement of disbursements, compared it with the vouchers and find the same to be $3,772.81, leaving a balance of $2,135.10, of which $887.18 is in the Institution for the Savings of Merchants' Clerks, $1,207.77 in the Fifth Avenue Trust Co. (by balance on Dec. 16, 1901, subject to further deposits amounting to $69.60 and to withdrawals amounting to $37.40), and $7.95 in cash on hand.

GUSTAVE LEGRAS,
GEORGE D. OLDS,
Auditing Committee.

NEW YORK, December, 28, 1901.

REPORT OF THE LIBRARIAN FOR THE YEAR 1901.

I have the honor to make the following report concerning the present condition of the library of the Society:

During the past few years the library has increased in size and value by the accumulation of unbound periodicals received in exchange for the *Bulletin* and the *Transactions*. There has been no fund for binding these periodicals and no permanent place of deposit, the library remaining in the custody of the Librarian of the Society.

The desirability of properly caring for the library and of making it available for consultation by members of the Society and others induced the Council to accept the offer of Columbia University resulting in an agreement entered into October 30, 1901, between the Council of the Society and the Trustees of Columbia University.

This agreement provides in brief that the books, periodicals and other printed matter forming the library of the Society shall be deposited in the library of Columbia University. The University agrees to bind, catalogue and care for the library and to keep it as a separate collection to be used only as a reference library by persons other than members of the Society. Members of the Society may borrow the books under regulations to be determined by the Council of the Society and the Librarian of the University. The title to the books remains in the Society and they may be withdrawn from the University upon payment of the initial cost of binding.

In accordance with this agreement the library has been transferred from the personal custody of the Librarian of the Society to the Librarian of Columbia University, the books have been bound in a substantial and economical binding, and the library is now available for reference and loan.

I take this opportunity to recommend to members of the Society that the library be made a depository for mathematical publications, especially those of members of the Society and those which are of interest in a study of the history of mathematics in America. All such matter received will be properly cared for, bound if necessary, catalogued and included in the annual report of the Librarian.

Below is given a complete list of the periodical publications owned by the Society.

Amsterdam, Genootschap d. Math. Wetenschap, *Wiskundige Opgaven*, vol. 5, nos. 2–7 ; vol. 6 ; vol. 7, nos. 2–4, 6 ; vol. 8, no. 4.

Amsterdam, *Nieuw Archief voor Wiskunde*, 1st series, vols. 1–20 ; 2d series, vol. 1, nos. 1, 2; vol. 3 ; vol. 4, nos. 1, 3 ; vol. 5, no. 2.

Amsterdam, *Revue Semestrielle des Publications Mathématiques*, vols. 1–9 ; Index, vols. 1–5.

Baltimore, *American Journal of Mathematics*, vols. 9–10, 14–23 ; Index vols. 11–20.

Berlin, *Fortschritte der Mathematik*, vols. 22–29 ; vol. 30, nos. 1–3.

Boston, American Academy of Arts and Sciences, *Proceedings*, 1890–1901 ; *Memoirs*, 1901.

Boston, *Technology Quarterly*, vols. 4–13 ; vol. 14, nos. 1–3.

Cambridge Philosophical Society, *Proceedings*, vol. 10, nos. 1–7 ; vol. 11, nos. 1–3 ; *Transactions*, vol. 17, nos. 2, 3 ; vol. 18 ; vol. 19, no. 1.

Cambridge, Mass., *Annals of Mathematics*, 1st series, vols. 1–4 ; vol. 5, nos. 1, 2, 4–6 ; vols. 6–12 ; 2d series, vols. 1, 2 ; vol. 3, nos. 1, 2.

Caracas, Venezuela, *Annales de la Universidad Central*, vol. 1, nos. 1, 2.

Cherbourg, Société nationale des Sciences naturelles et mathématiques, *Mémoires*, vol. 31.

Chicago, *Astronomy and Astro-Physics*, vol. 11, nos. 107–110 ; vol. 12 ; vol. 13, nos. 121–124, 126–130 ; *Astro-Physical Journal*, vols. 1–13 ; vol. 14, nos. 1–5.

Christiania, Videnskabs-Selskabet, *Skrifter, Mathematick-Naturvidenskabelig Klasse*, 1898–1899 ; 1900, nos. 1–4 ; *Forhandlinger*, 1898–1899 ; *Ofversigt*, 1898–1899.

Coimbra, *Journal des Sciencias Mathematicas e Astronomicas*, vols. 9–13 ; vol. 14, nos. 1–5.

Cracow, Académie des Sciences, *International Comptes Rendus*, 1900, nos. 1–6, 10 , *Classe de Sciences mathématiques et naturelles*, 1901, nos. 1–7.

Dublin, Royal Society, *Scientific Transactions*, 2d series, vol. 7, nos. 1–7 ; *Economic Proceedings*, vol. 1, nos. 1, 2 ; *Scientific Proceedings*, vol. 9, nos. 1, 2 ; Index to Scientific Proceedings and Transactions, 1877–1898.

Edinburgh Mathematical Society, *Proceedings*, vol. 1, nos. 11–18.

Edinburgh Royal Society, *Proceedings*, vols. 3, 4, 10–12, 15–22 ; vol. 23, nos. 1–5 ; *Transactions*, vol. 40, pt. 1, nos. 3, 5, 9–11 ; pt. 2, no. 13.

Erlangen, Physikalisch-Medicinische Societät, *Sitzungsberichte*, vols. 29, 31.

Fort Monroe, Va., *Journal of the U. S. Artillery*, vol. 1, nos. 1–3, 5; vol. 2, nos. 1–4; vol. 3, nos. 2–4; vols. 4–15; vol. 16, nos. 1–3.

Ghent, *Mathesis*, 2d series, vols. 4–10; 3d series, vol. 1.

Glasgow Philosophical Society, *Proceedings*, vol. 30.

Göttingen, *Nachrichten. Math. Phys. Klasse*, 1892–1893, 1894, nos. 1–3; 1895–1899; 1900, nos. 1, 3, 4; 1901, nos. 1–4; *Geschäftliche Mittheilungen*, 1894–1899; 1900, no. 1; 1901, no. 1.

Halifax, Nova Scotian Institute of Science, *Proceedings and Transactions*, vols. 8, 9; vol. 10, nos. 1, 2.

Ithaca, N. Y., *Journal of Physical Chemistry*, vols. 1–4; vol. 5, nos. 1–9.

Kansas University, *Quarterly*, vol. 9; vol. 10, nos. 1, 2.

Kazan, Société Physico-Mathématique, *Bulletin*, 2d series, vols. 1–5; vol. 6, nos. 3–4; vols. 7–9; vol. 10, nos. 1–4; Catalogue of Polish Scientific Literature, vol. 1, nos. 2–3.

Kharbor, Mathematical Society, *Communications*, 2d series, vols. 5, 6; vol. 7, no. 1.

Leghorn, *Periodico di Matematica*, vol. 14; vol. 15, nos. 1–6; vol. 16; vol. 17, nos. 1–3; *Supplemento*, vol. 2, nos. 1–9; vol. 3, nos. 1–9; vol. 4, nos. 1–9; vol. 5, nos. 1–2.

Leipzig, *Archiv der Mathematik*, 3d series, vol. 1; vol. 2, nos. 1–2.

Leipzig, Deutsche Mathematiker-Vereinigung, *Jahresberichte*, vols. 5–9; vol. 10, no. 2_1, vol. 11, nos. 1–2. Two sets.

Leipzig, *Mathematische Annalen*, vol. 46; vol. 47, nos. 1–3; vol. 48, nos. 3, 4; vols. 49–54; vol. 55, nos. 1–3.

Leipzig, Sächsische Gesellschaft der Wissenschaften, Mathematisch-Physische Classe, *Abhandlungen*, vol. 25, no. 1; vol. 26, nos. 1–3, 5–7. *Berichte*, vol. 53, nos. 1–3.

Leipzig, *Zeitschrift für Mathematik und Physik*, vol. 43, no. 1; vols. 44–46.

Liege, Société Royal des Sciences, *Mémoires*, 2d series, vols. 19, 20; 3d series, vols. 1, 2.

Lima, Peru, *Revista de Ciencias*, vol. 1, nos. 3, 5; vol. 3, nos. 1–3, 5–12; vol. 4, nos. 1–10.

London, *Astronomical Journal*, nos. 265–280, 282–287.

London, *Educational Times*, vols. 50–53; vol. 54, nos. 1–11; vol. 55, no. 1.

London, *The Mathematical Gazette*, vol. 1, nos. 15–24 ; vol. 2, nos. 26–30.

London Mathematical Society, *Proceedings*, vols. 1–32 ; vol. 33, nos. 738–763 ; Index, vols. 1–30.

London, Royal Society, *Proceedings*, vol. 62, nos. 382–388 ; vols. 63–68 ; vol. 69, nos. 451–453 ; *Philosophical Transactions*, series A, vols. 192, 193.

Madrid, *Archivo de Matematicas*, vol. 1 ; vol. 2, nos. 1–8.

Madrid, Real Academia de Ciencias, *Memorias*, vol. 14, no. 1.

Manchester Literary and Philosophical Society, *Memoirs and Proceedings*, vols. 41–44 ; vol. 45, nos. 1–3 ; vol. 46, no. 1.

Marseilles, Faculté des Sciences, *Annales*, vol. 11.

Mexico, Sociedad Cientifica Antonia Alzate, *Memorias y Rivista*, vols. 5–7 ; vol. 8, nos. 1–8 ; vol. 9, nos. 1–6, 9–10 ; vol. 10 ; vol. 11, nos. 1–8 ; vol. 12 ; vol. 13, nos. 1, 2 ; vol. 14, nos. 1–6, 9–12 ; vol. 15, nos. 1–10 ; vol. 16, no. 1.

Milan, *Annali di Matematica*, 3d series, vol. 2 ; vol. 3, nos. 1, 2 ; vols. 4, 5 ; vol. 6, nos. 1–3.

Montpellier, Académie des Sciences et Lettres, *Mémoires*, 2d series, vols. 1, 2 ; vol. 3, no. 1.

Moscow Mathematical Society, Sbornik, vol. 21 ; vol. 22, no. 1.

Mt. Hamilton, Cal., Lick Observatory, *Publications*, vol. 4, 1900.

New York, Actuarial Society of America, *Reports*, vols. 1–5 ; vol. 6, nos. 21–24 ; vol. 7, nos. 25, 26.

New York, New York Mathematical Society, *Bulletin*, vols. 1–3 ; American Mathematical Society, *Bulletin*, vols. 1–7 ; *Transactions*, vols. 1, 2.

New York, American Physical Society, *Bulletin*, vol. 1, no. 4 ; vol. 2, nos. 1–2.

Odessa, *Bulletin of Experimental Physics and Elementary Mathematics*, vol. 24 ; vol. 25, nos. 1–5, 8–12 ; vol. 26, nos. 1–4.

Palermo, Accademia di Scienze, *Atti*, vol. 5.

Palermo, *Il Pitagora*, vol. 5, nos, 1–3 ;vol. 6, nos. 1–8 ; vol. 7, nos. 1, 2.

Palermo, *Rendiconti del Circolo Matematico*, vol. 7, no. 6 ; vols. 8, 9 ; vol. 10, nos. 1–4, 6 ; vols. 11–14 ; vol. 15, nos. 1–4.

Paris, *Journal de Mathématiques*, vols. 3–6 ; vol. 7, nos. 1–3.

Paris, *L'Intermédiaire des Mathématiciens*, vols. 4–7 ; vol. 8, nos. 1–11.

Paris, Société Mathématique de France, *Bulletin*, vols. 21–26 ; vol. 27, nos. 3, 4 ; vol. 28 ; vol. 29, nos. 1–3.

Philadelphia, American Philosophical Society, *Proceedings*, vol. 29, no. 136; vols. 30–39; vol. 40, nos. 165, 166; *Transactions* vol. 20, nos. 1, 2.

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1898,	Apr.	ENGBERG, CARL CHRISTIAN, B.Sc., M.A., Ph.D. (Nebraska); Instructor in Mathematics, University of Nebraska, Lincoln, Neb.
1892,	Mar.	ENGLER, EDMUND ARTHUR, M.A., Ph.D., LL.D.; President of the Worcester Polytechnic Institute, Worcester, Mass. *11 Boynton Street.*
1898,	Oct.	ESCOTT, EDWARD BRIND, M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *718 Monroe Street.*
1901,	Dec.	ESTY, THOMAS CUSHING, M.A.; Professor of Mathematics, University of Rochester, Rochester, N. Y.
1891,	May	ESTY, WILLIAM COLE, LL.D.; Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass.
1899,	Feb.	FAUGHT, JOHN BROOKIE, M.A., Ph.D.; Professor of Mathematics, Michigan Northern State Normal School, Marquette, Mich. *211 East Hewitt Avenue.*
1901,	Feb.	FERRY, FREDERICK CARLOS, M.A., Ph.D. (Clark); Professor of Mathematics and Dean of the Faculty, Williams College, Williamstown, Mass.
1900,	June	FIELD, PETER, M.Sc., Ph.D. (Cornell); Professor of Mathematics and Astronomy, Carthage College, Carthage, Ill.
1891,	May	FIELDS, JOHN CHARLES, Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Special Lecturer in Mathematics, University of Toronto, Toronto, Canada. *62 Sussex Avenue.*
1901,	Oct.	FINDLAY, WILLIAM, M.A., Ph.D. (Chicago); Tutor in Mathematics, Columbia University, New York, N. Y.
1891,	May	FINE, HENRY BURCHARD, M.A., Ph.D. (Leipsic); Professor of Mathematics, Priceton University, Princeton, New Jersey.
1891,	June	FINKEL, BENJAMIN FRANKLIN, M.A., M.Sc.; Member of the London Mathematical Society; Editor of the *American Mathematical Monthly;* Professor of Mathematics and Physics, Drury College, Springfield, Mo. *1227 Clay Street.*
1899,	Feb.	FISHBURNE, EDWARD BELL, JR., Ph.B., M.A.; President of the Hoge Military Academy, Blackstone, Va.

Date of Admission.

1895, Jan. FISHER, IRVING, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. *460 Prospect Street.*

1888, Nov. FISKE, THOMAS SCOTT, M.A., Ph.D. (Columbia); Member of the London Mathematical Society; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.

1897, Feb. FITCH, ANNIE LOUISE MACKINNON (MRS. EDWARD), M.Sc., Ph.D. Clinton, N. Y.

1901, Oct. FITE, WILLIAM BENJAMIN, Ph.D. (Cornell); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *110 Cook Street.*

1894, Oct. FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C.

1900, Feb. FOCKE, ANNE BOSWORTH, B.Sc., Ph.D. (Göttingen). *106 Cutler Street,* Cleveland, O.

1900, Apr. FORD, ROBERT DALE, M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y.

1899, Aug. *FORD, WALTER B., M.A.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *718 Monroe Street.*

1899, Dec. FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin, Victoria), LL.D.; F.R.S.; Corresponding Associate of the Reale Instituto Lombardo; Member of the London Mathematical Society; Member of Cambridge Philosophical Society; F.R.A.S.; Sadlerian Professor of Pure Mathematics and Fellow of Trinity College, Cambridge University, Cambridge, England.

1893, Dec. FRANKLAND, FREDERICK WILLIAM, F.I.A.; Member of the Actuarial Society of America; Associate Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.

1892, Dec. FRANKLIN, FABIAN, Ph.B., Ph.D. (Johns Hopkins); Member of the London Mathematical Society. *1507 Park Avenue,* Baltimore, Md.

1897, Mar. FREELAND, WILLIAM, B.A. *27 West 44th Street,* New York, N. Y.

1895, Nov. FRIZELL, ARTHUR BOWES, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *1200 Massachusetts Avenue.*

Date of Admission.		
1892,	Oct.	GABLE, GEORGE DANIEL, M.A., Ph.D.; Hunt Professor of Mathematics, Parsons College, Fairfield, Iowa.
1899,	Oct.	GALE, ARTHUR SULLIVAN, B.A., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *281 Willow Street.*
1899,	Aug.	GATES, FANNY COOK, M.L.; Associate Professor of Physics, The Woman's College, Baltimore, Md.
1894,	Feb.	GENTRY, RUTH, B.Ph., Ph.D. (Bryn Mawr); Associate Principal and Head Teacher of Mathematics, Miss Gleim's School for Girls, Pittsburgh, Pa. *805 South Negley Avenue.*
1897,	Dec.	GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Principal of Public School No. 94, Brooklyn, N. Y.
1901,	Feb.	GERRANS, HENRY TRESAWNA, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Société Mathématique de France; Fellow and Tutor of Worcester College, Oxford, England.
1891,	Jan.	GILMAN, GEORGE HOUGHTON, M.A., LL.B., *41 Wall Street,* New York, N. Y.
1892,	June	GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; F.R.S.; F.R.A.S.; Editor of the *Messenger of Mathematics* and of the *Quarterly Journal of Pure and Applied Mathematics;* Fellow of Trinity College, Cambridge, England.
1891,	May	GLASHAN, JOHN CADENHEAD, LL.D.; Fellow of the Royal Society of Canada; Inspector of Public Schools, School Inspector's Office, Ottawa, Canada.
1896,	Nov.	GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1209 South University Avenue.*
1897,	Oct.	GORE, JOHN KINSEY, M.A.; Member of the Actuarial Society of America; Actuary of the Prudential Insurance Company, Newark, N. J.
1902,	Feb.	GOULD, ALICE BACHE, B.A. *405 Marlborough Street,* Boston, Mass.
1897,	May	GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *487 Orange Street.*
1891,	June	GREEN, RUFUS LOT, B.Sc., M.A.; Professor of Mathematics, Stanford University, Cal.

Date of Admission.

1897, Oct. *Greenhill, Alfred George, M.A.; F.R.S.; Member of the London Mathematical Society; Professor of Mathematics, Ordnance College, Woolwich, England.

1900, June Greenstreet, William John, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; F.R.A.S.; Editor of the *Mathematical Gazette;* Headmaster of the Marling School, Stroud, England.

1901, Oct. Greenwood, George William, B.A.; Professor of Mathematics and Astronomy, McKendree College, Lebanon, Ill.

1893, Dec. Griffiths, Ida, B.A. *15 West 91st Street,* New York, N. Y.

1899, Oct. Groat, Benjamin Feland, B.Sc; Assistant Professor of Mathematics and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn.

1894, June Gummere, Henry Volkmar, B.Sc., M.A.; Professor of Mathematics, Physics and Astronomy, Ursinus College, Collegeville, Montgomery County, Pa.

1902, Feb. Gundersen, Carl, M.A., Ph.D. (Columbia); Professor of Mathematics, La Grange College, La Grange, Mo.

1894, Aug. Hagen, John George, S.J.; Director of the Georgetown College Observatory, Washington, D. C. *Georgetown University.*

1902, Dec. Hall, Arthur Graham, B.Sc., Ph.D. (Leipzig); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *1036 Oakland Avenue.*

1891, Nov. Hall, Asaph, Jr., B.A., Ph.D. (Yale); Member of the Astronomische Gesellschaft, Professor of Astronomy and Director of the Observatory, University of Michigan, Ann Arbor, Mich.

1894, Oct. Hallett, George Hervey, M.A., Ph.D.; Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*

1891, May Halsted, George Bruce, M.A., Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the London Mathematical Society; Co-editor of *Le Matematiche;* Professor of Mathematics, University of Texas, Austin, Texas. *2407 Guadalupe Street.*

1899, Aug. Hammerslough, Carrie, M.A. *1215 Madison Avenue,* New York, N. Y.

Date of Admission.		
1901,	Oct.	HANAWALT, FRANCIS WAYLAND, M.A.; Professor of Mathematics and Astronomy, Iowa Wesleyan University, Mount Pleasant, Ia. *403 North White Street.*
1902,	Dec.	HANCOCK, EDWARD LEE, M.Sc.; Instructor in Mathematics, Purdue University, Lafayette, Ind. *222 South 9th Street.*
1895,	Apr.	HANCOCK, HARRIS, B.A., Ph.D. (Berlin), D.Sc. (Paris); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *Auburn Hotel, Mount Auburn.*
1900,	Dec.	HANNA, ULYSSES S., M.A.; Assistant Professor of Mathematics, Indiana University, Bloomington, Ind. *828 Atwater Avenue.*
1894,	Feb.	*HARDCASTLE, FRANCES, Member of the London Mathematical Society. *14 Huntingdon Road*, Cambridge, England.
1902,	Apr.	HARDY, JAMES GRAHAM, M.A., Ph.D.; Instructor in Mathematics, Williams College, Williamstown, Mass.
1891,	May	*HARKNESS, JAMES, M.A.; Associate Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1891,	Apr.	HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me.
1899,	Dec.	HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of California, Berkeley, Cal. *P. O. Box 3.*
1891,	May	HATHAWAY, ARTHUR STAFFORD, B.Sc., Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. *2206 North 10th Street.*
1901,	Feb.	HAVILAND, EDWIN, JR., B.Sc., M.A.; Professor of Mathematics, Clarkson School of Technology, Potsdam, N. Y. *P. O. Box 253.*
1898,	Aug.	HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *20 Carmel Street.*
1894,	Aug.	HAY, GUSTAVUS, B.A., M.D. *383 Marlborough Street*, Boston, Mass.
1901,	Aug.	HEDRICK, EARLE RAYMOND, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *13 Park Street.*

Dete of Admission.		
1900,	Dec.	HEWES, LAURENCE ILSLEY, B.Sc., Ph.D. (Yale); Professor of Mathematics, Rhode Island College of Agriculture and Mechanic Arts, Kingston, R. I.
1892,	Dec.	HILL, GEORGE WILLIAM, Ph.D., Sc.D., LL.D., EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Royal Astronomical Society. West Nyack, N. Y.
1895,	Nov.	HILL, JOHN ETHAN, Ph.D. (Clark); Instructor in Mathematics, University of West Virginia, Morgantown, W. Va.
1898,	Dec.	HIMOWICH, ADOLPH A., M.Sc., M.D. *130 Henry Street,* New York, N. Y.
1894,	Mar.	HITCHCOCK, FANNY R. M., Ph.D.; Philadelphia, Pa. *4038 Walnut Street.*
1902,	Apr.	HODGKINS, HOWARD LINCOLN, M.A., Ph.D. (Columbian); Dean and Professor of Mathematics, Corcoran Scientific School, Columbian University, Washington, D. C.
1895,	Feb.	HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark); Professor of Applied Mathematics and Dean of the College of Liberal Arts, Northwestern University, Evanston, Ill. *617 Hamline Street.*
1889,	June	HOLLADAY, WALLER, B.Sc., C.E., M.E.; Emeritus Professor of Mathematics, Cooper Institute; Mathematician of the Equitable Life Assurance Society, *120 Broadway,* New York, N. Y.
1902,	Dec.	HOSKINS, LEANDER MILLER, C.E., M.Sc.; Professor of Applied Mathematics, Stanford University, Palo Alto, Cal.
1891,	May	HOWE, CHARLES SUMNER, M.Sc., Ph.D.; Professor of Mathematics and Astronomy, Case School of Applied Science, Cleveland, Ohio.
1891,	May	HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Director of the Chamberlin Observatory of the University of Denver, University Park, Col.
1891,	May	HULBURT, LORRAIN SHERMAN, B.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1901,	Oct.	HUNTINGTON, EDWARD VERMILYE, M.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Instructor in Mathematics, Harvard University, Cambridge, Mass. *35 Fairfax Hall.*

Date of Admission.		
1891,	Apr.	HUSSEY, WILLIAM J., B.Sc.; Astronomer in the Lick Observatory, Mt. Hamilton, Cal.
1896,	Nov.	HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Associate Editor of the *Transactions of the American Mathematical Society;* Instructor in Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1891,	May	HYDE, EDWARD WYLLYS, C.E. *814 Lincoln Avenue, Station D,* Cincinnati, Ohio.
1891,	June	IRELAND, OSCAR BROWN, M.A.; President of the Actuarial Society of America; Actuary of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 1608.*
1902,	Apr.	IVEY, J. N., M.A., Ph.D. (Berlin); Instructor in Mathematics, Tulane University, New Orleans, La. *1649 Palmer Avenue.*
1901,	Dec.	JACKSON, LAMBERT LINCOLN, M.A.; Head of the Department of Mathematics, State Normal School, Brockport, N. Y. *108 Monroe Avenue.*
1892,	Jan.	JACOBUS, DAVID S., M.E.; Professor of Experimental Mechanics and Engineering Physics, Stevens Institute of Technology, Hoboken, N. J.
1888,	Nov.	JACOBY, HAROLD, Ph.D. (Columbia); Member of the Astronomische Gesellschaft; F.R.A.S.; Adjunct Professor of Astronomy, Columbia University, New York, N. Y. *333 West 76th Street.*
1893,	Feb.	JAMES, JOHN NELSON, B.A. Halle, Germany. *Karlstrasse* 23_1.
1897,	Apr.	JOFFE, S. A., M.Sc.; Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.
1891,	Mar.	JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.
1899,	Oct.	KASNER, EDWARD, M.A., Ph.D. (Columbia); Associate Editor of the *Transactions of the American Mathematical Society;* Tutor in Mathematics, Columbia University, New York, N. Y. *121 East 114th Street.*
1891,	Dec.	KENNELLY, A. E., D.Sc., F.R.A.S. Harvard University, Cambridge, Mass.
1900,	Dec.	KENYON, ALFRED MONROE, M.A.; Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *409 University Avenue,* West Lafayette.

Date of Admission.		
1892,	Oct.	KERR, WILLIAM JASPER, D.Sc.; President of the Agricultural College of Utah, Logan, Utah.
1891,	Apr.	KERSHNER, JEFFERSON E., M.A., Ph.D. (Yale); Professor of Mathematics, Franklin and Marshall College, Lancaster, Pa. *337 West Walnut Street.*
1897,	Aug.	KEYSER, CASSIUS JACKSON, B.Sc., M.A., Ph.D. (Columbia); Instructor in Mathematics, Columbia University, New York, N. Y.
1891,	Dec.	KNISELY, ALEXANDER, B.Sc. Columbia City, Ind.
1901,	Oct.	KUHN, HARRY WALDO, Ph.D. (Cornell); Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio. *215 West 10th Avenue.*
1894,	Apr.	*LADUE, POMEROY, B.Sc.; Professor of Mathematics, New York University, New York, N. Y. *University Heights.*
1893,	Dec.	LAMBERT, PRESTON ALBERT, M.A.; Assistant Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 South Center Street.*
1897,	Jan.	LANDIS, WILLIAM WEIDMAN, M.A.; Professor of Mathematics, Dickinson College, Carlisle, Pa.
1898,	Apr.	LANZA, GAETANO, B.Sc., C. and M.E.; Professor of Theoretical and Applied Mechanics, in charge of the Department of Mechanical Engineering, Massachusetts Institute of Technology, Boston, Mass.
1897,	May	LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.
1889,	Dec.	LEGRAS, GUSTAVE, M.Sc.; Assistant Professor of Mathematics, College of the City of New York. *17 Lexington Avenue,* New York, N. Y.
1900,	Oct.	LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2924 Shattuck Avenue.*
1892,	Feb.	LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Associate Professor of Astronomy and Geodesy, and Director of the Students' Observatory, University of California, Berkeley, Cal. *2011 Bancroft Way.*
1891,	May	LEWIS, CHARLTON THOMAS, Ph.D. (New York University); Member of the Actuarial Society of America. *34 Nassau Street,* New York, N. Y.

Date of Admission.		
1894,	June	LING, GEORGE HERBERT, Ph.D. (Columbia); Tutor in Mathematics, Columbia University, New York, N. Y. *242 West 135th Street.*
1900,	Dec.	LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Civil Engineering, University of Idaho, Moscow, Id.
1900,	June	LOCKE, LESLIE LELAND, M.A., *312 Greene Avenue,* Brooklyn, N. Y.
1891,	June	LOUD, FRANK HERBERT, M.A., Ph.D. (Haverford); Professor of Mathematics, Colorado College, Colorado Springs, Col. *703 South 10th Street.*
1901,	Feb.	LOVE, AUGUSTUS EDWARD HOUGH, M.A., D.Sc. (Oxford); F.R.S.; Honorary Secretary of the London Mathematical Society; Sedleian Professor of Natural Philosophy, Oxford University, Oxford, England. *34 St. Margaret's Road.*
1891,	Apr.	LOVE, JAMES LEE, M.A.; Assistant Professor of Mathematics; Secretary of the Lawrence Scientific School, Harvard University, Cambridge, Mass. *16 University Hall.*
1894,	Oct.	LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipsic); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Princeton University, Princeton, N. J.
1896,	Nov.	*LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Captain, 6th U. S. Artillery. *Fort Baker,* Sansalito, Col.
1894,	Oct.	LYMAN, ELMER A., B.A., Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.*
1889,	Dec.	*MCCLINTOCK, EMORY, M.A., Ph.D., LL.D.; EX-PRESIDENT; F.I.A.; Member of the Actuarial Society of America; Member of the London Mathematical Society; Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.
1902,	Apr.	MCDONALD, JOHN HECTOR, B.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2532 Hillegass Avenue.*
1891,	May	MCDOUGALL, ALEXANDER HIRAM, B.A.; Mathematical Master of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*

Date of Admission.		
1897,	Dec.	McKay, Alexander Charles, B.A.; Professor of Mathematics, McMaster University, Toronto, Can.
1895,	Nov.	McKinney, Thomas Emery, M.A.; Professor of Mathematics and Astronomy, Marietta College, Marietta, O. *617 Wooster Street.*
1897,	Feb.	Mackinnon, Annie Louise (Mrs. Edward Fitch), M.Sc., Ph.D. Clinton, N. Y.
1891,	Apr.	McMahon, James, M.A.; Member of the London Mathematical Society; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.*
1891,	Apr.	McNeill, Malcolm, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest University, Lake Forest, Ill.
1898,	Dec.	*Macaulay, Francis Sowerby, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette;* Mathematical Master, St. Paul's School, West Kensington, London, W., England.
1891,	May	Macfarlane, Alexander, M.A., D.Sc. (Edinburgh), LL.D.; Member of the Circolo Matematico di Palermo; Lecturer on Mathematical Physics, Lehigh University, South Bethlehem, Pa. *Gowrie Grove, Chatham, Ontario, Canada.*
1897,	Dec.	Mackay, John Sturgeon, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Master in the Edinburgh Academy. *69 Northumberland Street,* Edinburgh, Scotland.
1888,	Nov.	Maclay, James, C.E., Ph.D. (Columbia); Adjunct Professor of Mathematics, Columbia University, New York, N. Y.
1897,	Jan.	Maddison, Isabel, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Secretary to the President and Reader in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1897,	Aug.	Maltbie, William Henry, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, The Woman's College, Baltimore, Md.
1900,	June	Manchester, James Eugene, B.Sc., D.Sc. (Tübingen); President of Vincennes University, Vincennes, Ind.
1891,	Nov.	Mann, Charles Riborg, M.A., Ph.D. (Berlin); Instructor in Physics, University of Chicago, Chicago, Ill.

Date of Admission.

1891, Nov. MANNING, HENRY PARKER, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Pure Mathematics, Brown University, Providence, R. I.

1891, June MARKLEY, JOSEPH LYBRAND, M. A., Ph. D. (Harvard); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1320 South University Avenue.*

1891, Apr. MARTIN, ARTEMAS, M.A., Ph.D., LL.D; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; U. S. Coast and Geodetic Survey Office, Washington, D. C. *915 N Street, N. W.*

1899, Dec. MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr). Montreat, Buncombe Co., N. C.

1893, Feb. MASCHKE, HEINRICH, Ph.D. (Göttingen); Associate Professor of Mathematics, University of Chicago, Chicago, Ill. *5721 Monroe Avenue.*

1890, May MASON, JAMES WEIR, M.A.; Member of the Actuarial Society of America; Professor of Pure Mathematics, College of the City of New York, New York, N. Y.

1892, Mar. MENDIZÁBAL-TAMBORREL JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; F.R.A.S.; Member of the Astronomische Gesellschaft; Captain of Engineer Corps. *Sociedad "Alzate," Palma No. 13,* Mexico, D. F., Mexico.

1891, Apr. MERRIMAN, MANSFIELD, C.E., Ph.D.; Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa.

1889, June MESSENGER, HIRAM JOHN, Lit.B., Ph.D.; Member of the Actuarial Society of America; Actuary of the Travelers Insurance Company, Hartford, Conn.

1891, Oct. *METZLER, WILLIAM H., B.A., Ph.D. (Clark); Fellow of the Royal Society of Edinburgh; Corresponding Fellow of the Royal Society of Canada; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y.

1891, June MILLER, BLOOMFIELD JACKSON; Member of the Actuarial Society of America; Mathematician of the Mutual Benefit Life Insurance Company. *752 Broad Street,* Newark, N. J.

Date of Admission.

1891, May MILLER, EPHRAIM, M.A., Ph.D.; Professor of Mathematics and Astronomy, and Dean of the School of Arts, University of Kansas, Lawrence, Kan. *1244 Tennessee Street.*

1898, Apr. *MILLER, GEORGE A., Ph.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Stanford University, Cal. *P. O. Box 783.*

1899, Oct. MILLER, JOHN ANTHONY, M.A., Ph.D. (Chicago); Professor of Mechanics and Astronomy, University of Indiana, Bloomington, Ind. *Escondite.*

1900, Dec. MILNE, EDWARD LAWRENCE, M.Sc.; Instructor in Mathematics, University of Illinois, Champaign, Ill. *307 West Hill Street.*

1900, Dec. MITCHELL, HENRY BEDINGER, E.E., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y. *Linden Hill, Flushing, New York, N. Y.*

1891, May MOODY, WILLIAM ALBION, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*

1891, May MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale, Göttingen, honorary); EX-PRESIDENT; Member of the National Academy of Sciences; Member of the Circolo Matematico di Palermo; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5617 Washington Avenue.*

1902, Apr. MORENO, HALCOTT C., M.A., Ph.D. (Clark); Instructor in Applied Mathematics, Stanford University, Palo Alto, Cal. *P. O. Box 92.*

1891, May MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Editor of the *Bulletin of the American Mathematical Society;* Editor of the *American Journal of Mathematics;* Professor of Mathematics, Johns Hopkins University, Baltimore, Md.

1900, Feb. MOULTON, FOREST RAY, B.A., Ph.D. (Chicago); F.R.A.S.; Associate Editor of the *Journal of Geography;* Instructor in Astronomy, University of Chicago, Chicago, Ill.

Date of Admission.		
1900,	Dec.	*MUKHOPÂDHYÁY, ASUTOSH, M.A., LL.D.; Member of the Société Mathématique de France; Member of the Edinburgh Mathematical Society; Member of the Circolo Matematico di Palermo; F.R.A.S.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta, Calcutta, India; Professor of Mathematics at the Indian Association for the Cultivation of Science. *77 Russa Road North*, Bhowanipore, Calcutta.
1898,	Oct.	MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Morris High School, New York, N. Y.
1890,	Dec.	MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Dalhousie College, Halifax, N. S.
1891,	June	NELSON, ALFRED BRIERLEY, M.A., M.D.; Professor of Mathematics, Centre College, Danville, Ky. *443 Lexington Street.*
1895,	Dec.	NEUFELD, JULIUS L., E.E.; Assistant Professor of Mathematics, Central High School, Philadelphia, Pa. *1905 Venango Street.*
1891,	Nov.	NEWCOMB, SIMON, D.Sc., Ph.D., LL.D., D.C.L.; EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Institute of France; Foreign Associate of the Royal Astronomical Society; President of the Astronomical and Astrophysical Society; Co-editor of the *American Journal of Mathematics;* Associate Editor of *Science;* Emeritus Professor of Mathematics and Astronomy, Johns Hopkins University; Professor of Mathematics, U. S. Navy, retired. *1620 P Street*, Washington, D. C.
1891,	Oct.	NEWSON, HENRY BYRON, M.A., Ph.D.; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Kansas University Science Bulletin;* Associate Professor of Mathematics, University of Kansas, Lawrence, Kan.
1897,	Jan.	NEWSON, MARY WINSTON, B.A., Ph.D. (Göttingen). *1702 Massachusetts Street*, Lawrence, Kan.
1899,	Aug.	NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Assistant Professor of Mathematics, Hamilton College, Clinton, N. Y.

Date of Admission.		
1900,	Dec.	NICHOLS, WALTER SMITH, M.A.; Member of the Actuarial Society of America; Editor of the *Insurance Monitor* and *Insurance Law Journal*. *100 William Street*, New York, N. Y.
1891,	June	NICHOLSON, JAMES WILLIAM, M.A., LL.D.; Professor of Mathematics, Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La. *901 Convention Street.*
1899,	Dec.	NOBLE, CHARLES ALBERT, B.Sc., Ph.D. (Göttingen); Instructor in Mathematics, University of California, Berkeley, Cal. *2727 Bancroft Way.*
1891,	Dec.	OLDS, GEORGE DANIEL, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.
1902,	Oct.	OSBORNE, WINFRED HORTON, B.A.; Purdue University, Lafayette, Indiana.
1891,	Apr.	OSBORNE, GEORGE ABBOTT, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1895,	Feb.	OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Harvard University, Cambridge, Mass. *60 Walker Street.*
1894,	Oct.	OSTERBERG, MAX, E.E., M.A. *11 Broadway*, New York, N. Y.
1900,	Dec.	PAGE, JAMES MORRIS, M.A., Ph.D. (Leipsic); Professor of Mathematics, University of Virginia, Charlottesville, Va.
1897,	May	PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *2733 Euclid Avenue.*
1894,	Mar.	PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Professor of Physics, Central Manual Training School, Philadelphia, Pa. *17th and Wood Streets.*
1896,	Dec.	PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.
1891,	May	PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipsic); Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. *The Jefferson Physical Laboratory.*
1898,	Oct.	PEIRCE, JAMES MILLS, M.A.; Perkins Professor of Astronomy and Mathematics, Harvard University, Cambridge, Mass. *4 Kirkland Place.*

Date of Admission.

1898, Oct. PELL, ALEXANDER, Ph.D. (Johns Hopkins); Professor of Mathematics, University of South Dakota, Vermillion, S. Dak.

1893, Oct. PETTEGREW, DAVID LYMAN, General Special Agent of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 75, Worcester, Mass.*

1892, Oct. PFISTER, JOSEPH CLEMENT, M.A.; Instructor in Mechanics, Columbia University, New York, N. Y.

1896, Nov. PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *209 York Street.*

1894, Oct. PIERPONT, JAMES, Ph.D. (Vienna); Professor of Mathematics, Yale University, New Haven, Conn. *42 Mansfield Street.*

1889, Dec. PIERSON, ISRAEL CORIELL, M.A., Ph.D.; Member of the Actuarial Society of America; Actuary of the Washington Life Insurance Company of New York. *141 Broadway,* New York, N. Y.

1892, Nov. PLUMLEY, GARDNER LADD, Member of the Actuarial Society of America; Assistant Actuary of the Home Life Insurance Company. *256 Broadway,* New York, N. Y.

1890, Dec. POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S.; Editor of the *Annals of the New York Academy of Sciences. 22 Thomas Street,* New York, N. Y.

1897, Feb. PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Yale University, New Haven, Conn. *77 Whitney Avenue.*

1892, May PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *122 Bayard Street.*

1889, Dec. PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin); Professor of Electro-Mechanics, Columbia University, New York, N. Y.

1891, June PURYEAR, CHARLES, B.Sc., M.A., C.E.; Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Texas.

1902, Apr. PUTNAM, THOMAS MILTON, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal.

Date of Admission.		
1901,	Oct.	RABINOVITCH, I. EUCLID, Ph.D. (Johns Hopkins). *130 Henry Street*, New York, N. Y.
1900,	Feb.	RADELFINGER, FRANK GUSTAVE, B.Sc., LL.B.; Attorney at Law and Patents. *1431 Chapin Street*, Washington, D. C.
1894,	Mar.	RAND, JOHN HOLMES, M.A.; Professor of Mathematics, Bates College, Lewiston, Me. *28 Frye Street.*
1891,	Dec.	RAYSON, AMY, B.A.; Joint Principal of School for Girls, New York, N. Y. *176 West 75th Street.*
1901,	Aug.	REAVES, SAMUEL WATSON, B.Sc., B.A.; Assistant Professor of Mathematics, Clemson College, S. C.
1888,	Nov.	REES, JOHN KROM, M.A., E.M., Ph.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Director of the Observatory, Columbia University, New York, N. Y.
1900,	Apr.	REID, LEGH WILBER, B.A., M.Sc., Ph.D. (Göttingen); Associate Professor of Mathematics, Haverford College, Haverford, Pa.
1893,	Apr.	RICE, CHARLES MOEN, B.A. Worcester, Mass. *P. O. Box 215.*
1899,	Aug.	*RICHMOND, HERBERT WILLIAM, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Fellow and Lecturer of King's College, and University Lecturer, Cambridge University, Cambridge, England.
1902,	Oct.	RIETZ, HENRY LEWIS, B.Sc., Ph.D. (Cornell); Professor of Mathematics and Astronomy, Butler College, Indianapolis, Ind.
1891,	Oct.	ROCKWELL, CHARLES HALL. Tarrytown, N. Y.
1891,	May	ROCKWOOD, CHARLES GREENE, JR., M.A., Ph.D. (Yale); Professor of Mathematics, Princeton University, Princeton, N. J. *34 Bayard Lane.*
1896,	Apr.	ROE, EDWARD DRAKE, JR., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; John Raymond French Professor of Mathematics, Syracuse University, Syracuse, N. Y. *105 Ostrander Street.*
1902,	Apr.	ROEVER, WILLIAM HENRY, B.Sc.; *3628 St. Louis Avenue*, St. Louis, Mo.
1897,	Feb.	ROTHROCK, DAVID ANDREW, M.A., Ph.D. (Leipsic); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Indiana, Bloomington, Ind.

Date of Admission.		
1898,	Aug.	SAFFORD, FREDERICK HOLLISTER, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1897,	Dec.	SAUREL, PAUL LOUIS, B.Sc., D.Sc. (Bordeaux); Instructor in Mathematics, College of the City of New York. *17 Lexington Avenue*, New York, N. Y.
1891,	Nov.	SAYRE, HERBERT ARMISTEAD, B.E., Ph.D. (Johns Hopkins); Professor of Physics, University of Alabama, University, Ala.
1894,	Mar.	SCHLEGEL, VICTOR, Ph.D. (Leipsic); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Königliche Höhere Machinenbauschule, Hagen, Germany. *Volmestrasse, 62.*
1892,	Feb.	*SCHMIEDEL, OSCAR, B.Sc., M.A.; Bethany, W. Va.
1895,	Mar.	SCHMITT, COOPER DAVIS, M.A.; Professor of Mathematics, University of Tennessee, Knoxville, Tenn.
1900,	Oct.	SCHOTTENFELS, IDA MAY, Ph.M.; *1230 Amsterdam Avenue*, New York, N. Y.
1892,	Apr.	SCHULTZE, ARTHUR, Ph.D.; Boys' High School, New York, N. Y.
1893,	Oct.	SCHWATT, ISAAC J., Ph.D.; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.
1891,	May	SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Co-Editor of the *American Journal of Mathematics;* Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1902,	Oct.	SCOTT, GEORGE HARVEY, M.A.; Professor of Mathematics and Astronomy, Yankton College, Yankton, S. Dak.
1889,	June	SEARLE, REV. GEORGE MARY, M.A., Ph.D. Catholic University, Washington, D. C.
1895,	Aug.	SEE, THOMAS JEFFERSON JACKSON, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, U. S. Navy, Washington, D. C. *Naval Observatory.*

Date of Admission.		
1902,	Feb.	DE SEGUIER, JEAN ARMAND MARIE JOSEPH, D.Sc.; Member of the Société Mathématique de France. *56 Rue des Saints Pères*, Paris, France.
1899,	Aug.	SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.
1892,	June	SHACK, FERDINAND, B.Sc., M.A., LL.B. *56 Wall Street*, New York, N. Y.
1891,	Apr.	SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.
1894,	Mar.	SHAW, JAMES BYRNIE, M.Sc., D. Sc.; Professor of Mathematics, Kenyon College, Gambier, Ohio.
1899,	Oct.	SINGER, SIMON AUGUSTUS, B.A.; Professor of Mathematics. Capital University, Columbus, Ohio.
1899,	Aug.	SKINNER, ERNEST BROWN, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wisconsin. *414 Charter Street.*
1899,	Oct.	SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Chicago, Chicago, Ill. *5535 Madison Avenue.*
1901,	Apr.	SLOCUM, STEPHEN ELMER, B.E., Ph.D. (Clark); Instructor in Applied Mathematics, University of Cincinnati, Cincinnati, Ohio.
1900,	Oct.	SMITH, BURKE, B.Sc.; Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *1136 Chapel Street.*
1893,	Oct.	SMITH, DAVID EUGENE, Ph.M., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
1898,	Apr.	SMITH, EUGENE RANDOLPH, M.A.; Instructor in Mathematics, Montclair High School, Montclair, N. J. *75 Valley Road.*
1891,	May	SMITH, OTIS DAVID, M.A., LL.D.; Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala.
1891,	Nov.	SMITH, PERCEY FRANKLYN, Ph.D.; Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *78 Pearl Street.*
1891,	Apr.	SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen); Professor of Mathematics, Tulane University, New Orleans, La.

Date of Admission.		
1889,	Dec.	SNOOK, THOMAS EDWARD, E.M.; Architect and Engineer. *261 Broadway*, New York, N. Y.
1895,	Apr.	SNYDER, MONROE BENJAMIN, M.A.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Applied Mathematics and Head of the Department of Mathematics, Central High School, Philadelphia, Pa.; Director of the Philadelphia Observatory. *2402 North Broad Street.*
1896,	Nov.	SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *204 University Avenue.*
1892,	May	SQUIER, GEORGE OWEN, Ph.D. (Johns Hopkins); Lieutenant-Colonel, U. S. A. Signal Corps; First Lieutenant, 3d Artillery, U. S. A. *Army and Navy Club*, Washington, D. C.
1888,	Nov.	STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia); U. S. Leather Co., *26 Ferry Street*, Brooklyn, N. Y.
1894,	Nov.	STECKER, EDWARD FREEMAN, M.Sc., Ph.D.; Instructor in Mathematics, Cornell University, Ithaca, N. Y. *113 Stewart Avenue.*
1891,	Jan.	STEINMETZ, CHARLES PROTEUS, Electrician, General Electric Company, Schenectady, N. Y.
1891,	June	ST. JOHN, HOWELL WILLIAMS, Ph.B.; Member of the Actuarial Society of America; Corresponding Member of the Institut des Actuaires Français; Actuary of the Ætna Life Insurance Company, Hartford, Conn. *P. O. Box 913.*
1891,	May	STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics;* Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Charlottesville, Va.
1897,	Feb.	STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipsic); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.
1902,	Apr.	STRINGHAM, IRVING, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, University of California, Berkeley, Cal. *The Owl's Nest, Prospect Avenue.*
1895,	Dec.	STRONG, WENDELL MELVILLE, M.A., Ph.D. (Yale); Member of the Actuarial Society of America. Mutual Life Insurance Company of New York. *32 Nassau Street.*
1891,	May	*TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Assistant Professor of Mathematics, Clark University, Worcester, Mass.

Date of Admission.

1900, Dec. TALIAFERRO, THOMAS HARDY, C.E., Ph.D. (Johns Hopkins). *1208 Madison Avenue*, Baltimore, Md.

1901, Oct. TALLMAN, WILLIAM DUANE, B.Sc.; Professor of Mathematics, Montana State College of Agriculture and Mechanic Arts, Bozeman, Montana. *726 Third Avenue South.*

1896, Nov. *TANNER, JOHN HENRY, B.Sc., Ph.D.; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*

1889, Dec. TATLOCK, JOHN, JR., M.A.; F.R.A.S.; Associate Actuary of the Mutual Life Insurance Company of New York, New York, N. Y. *32 Nassau Street.*

1891, Apr. TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.

1899, Oct. THOMPSON, EDWARD PAYSON, M.A.; Professor of Mathematics and Astronomy, Miami University, Oxford, Ohio.

1891, Apr. *THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *Morven Street.*

1897, Jan. *THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *308 Packer Avenue.*

1901, Oct. TORY, HENRY M., M.A.; Mathematical Lecturer, McGill University, Montreal, Canada.

1902, Apr. TOWNLEY, SIDNEY DEAN, M.Sc., Sc.D. (Michigan); Instructor in Practical Astronomy, University of California, Berkeley, Cal. *2023 Bancroft Way.*

1895, Nov. TOWNSEND, EDGAR JEROME, Ph.D. (Göttingen); Associate Professor of Mathematics, University of Illinois, Champaign, Ill. *402 West Clark Street.*

1893, Nov. TURRELL, ISAAC HODGES, Cincinnati, O. *1503 Chase Avenue, North Side.*

1894, Aug. TYLER, HARRY WALTER, B.Sc., Ph.D. (Erlangen); Professor of Mathematics and Secretary of the Faculty, Massachusetts Institute of Technology, Boston, Mass.

1897, Dec. UNDERHILL, MARY, M.Sc. *227 East 18th Street*, New York, N. Y.

1888, Nov. VAN AMRINGE, J. HOWARD, M.A., Ph.D. L.H.D., LL.D.; EX-PRESIDENT; Professor of Mathematics and Dean of Columbia College, Columbia University, New York, N. Y. *56 West 51st Street.*

Date of Admission.		
1902,	Feb.	VAN DER HEYDEN, ALEXANDER FREDERICK, M.A.; Fellow of the University of Durham; Member of the Mathematical Association; Mathematical Master, Middlesbrough High School, Middlesbrough, England. *3 St. John's Terrace.*
1902,	Oct.	VAN DER VRIES, JOHN N., M.A., Ph.D. (Clark); Associate Professor of Mathematics, University of Kansas, Lawrence, Kansas. *1136 Tennessee Street.*
1891,	June	VAN VELZER, CHARLES AMBROSE, B.Sc., Ph.D.; Member of the London Mathematical Society; Professor of Mathematics, University of Wisconsin, Madison, Wis. *134 West Gorham Street.*
1893,	Apr.	VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Wesleyan University, Middletown, Conn.
1891,	Apr.	VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.
1900,	June	VAUGHN, WILLIAM JAMES, M.A., LL.D.; Professor of Mathematics and Astronomy, Vanderbilt University, Nashville, Tenn.
1900,	Dec.	VIVIAN ROXANA HAYWARD, B.A., Ph.D. (Pennsylvania); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *106 Gordon Avenue, Hyde Park, Mass.*
1891,	Oct.	WAIT, LUCIEN AUGUSTUS, B.A.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *35 East Avenue.*
1891,	Apr.	WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Head Professor of Mathematics, Purdue University, Lafayette, Ind. *113 South Ninth Street.*
1898,	Dec.	WALKER, BUZZ M., M.Sc.; Professor of Mathematics, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.
1894,	Feb.	WALKER, LON CAIN, M.A. Stanford University, Palo Alto, Cal.
1898,	Apr.	WASHBURNE, ALVA COURTENAY, Member of the Actuarial Society of America; Actuarial Division, Metropolitan Life Insurance Company. *1 Madison Avenue,* New York, N. Y.

Date of Admission.		
1902,	Apr.	WEBB, HARRY EMMETT, B.A.; Instructor in Mathematics and Science, Stevens School, Hoboken, N. J. *Burling Terrace*, Summit, N. J.
1891,	Oct.	WEBB, JOHN BURKITT, C.E.; Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J.
1891,	May	WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin); Professor of Physics, Clark University, Worcester, Mass.
1891,	June	WEEKS, RUFUS WELLS, Member of the Actuarial Society of America; Actuary of the New York Life Insurance Company. *346 Broadway*, New York, N. Y.
1892,	Feb.	WELD, LAENAS GIFFORD, B.Sc., M.A.; Professor of Mathematics and Astronomy and Dean of the Graduate College, State University of Iowa, Iowa City, Ia.
1891,	Apr.	WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1891,	May	WENTWORTH, GEORGE ALBERT, M.A. Exeter, N. H.
1896,	Sept.	WENTZ, ESTELLA KATE, M.Sc.; Instructor in Mathematics, Manual Training High School, Indianapolis, Ind.
1897,	Feb.	WERNICKE, AUGUST LUDWIG PAUL; Professor of Modern Languages, State College of Kentucky, Lexington, Ky. *411 South Limestone Street.*
1897,	Dec.	*WESTERN, ALFRED EDWARD, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. *36 Lancaster Gate*, London, W., England.
1902,	Dec.	WESTFALL, W. D. A., B.A.; Instructor in Mathematics, Yale University, New Haven, Conn. *43 Hotchkiss Street.*
1898,	Aug.	WESTLUND, JACOB, Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *222 Main Street, West Lafayette.*
1892,	Nov.	WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); Associate Editor of the *Transactions of the American Mathematical Society;* Editor of the *Annals of Mathematics;* Noyes Professor of Pure Mathematics, Northwestern University, Evanston, Ill. *619 University Place.*
1902,	Dec.	WHITE, WILLIAM FRANK, M.A., B.D.; Head of the Department of Mathematics, State Normal School, New Paltz, N. Y.

Date of Admissson.		
1902,	Apr.	WHITNEY, ALBERT WURTS, B.A.; Instructor in Mathematics, University of California, Berkeley, Cal. *2630 Haste Street.*
1897,	Dec.	*WHITTAKER, EDMUND TAYLOR, M.A.; Member of the London Mathematical Society; Secretary of the Royal Astronomical Society; Fellow and Lecturer of Trinity College, Cambridge, England.
1897,	Feb.	WHITTEMORE, JAMES KELSEY, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *16 Claverly Hall.*
1899,	Feb.	WILCZYNSKI, ERNST JULIUS, Ph.D. (Berlin); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2337 Telegraph Avenue.*
1892,	May	WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics, Pennsylvania State College, State College, Center Co., Pa.
1895,	May	WILLIAMS, CLARK BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *Ferdinand-Rhode Strasse 24, Leipsic, Germany.*
1892,	May	WILLIAMS, ELLA CORNELIA, M.A. *133 West 56th Street,* New York, N. Y.
1898,	Apr.	WILLIAMS, WILLIAM HILL, M.A.; Chair of Mathematics, Wisconsin State Normal School, Platteville, Wis.
1891,	May	WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 63.*
1901,	Oct.	WILSON, ALBERT HARRIS, M.S.; Instructor in Mathematics, Princeton University, Princeton, N. J.
1899,	Dec.	WILSON, EDWIN BIDWELL, B.A., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *Ecole Normale Supérieure, Paris, France.*
1900,	Dec.	WILSON, NORMAN RICHARD, M.A.; Lecturer in Mathematics, Wesley College, University of Manitoba, Winnipeg, Canada.
1899,	Dec.	WOOD, RUTH GOULDING, B.Sc., Ph.D. (Yale); Instructor in Mathematics, Smith College, Northampton, Mass. *57 Dryads Green.*
1895,	Oct.	WOODS, FREDERICK S., B.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Assistant Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *21 Church Street, Newton, Mass.*

Date of Admission.		
1891,	May	WOODWARD, ROBERT SIMPSON, C.E., Ph.D. (Michigan); EX-PRESIDENT; Member of the National Academy of Sciences; Associate Editor of *Science;* Professor of Mechanics and Mathematical Physics and Dean of the School of Pure Science, Columbia University, New York, N. Y.
1891,	May	WORTHEN, THOMAS WILSON DORR, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.
1898,	Oct.	WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America; Consulting Life Insurance Actuary. *45 Milk Street, Room 77,* Boston, Mass.
1902,	Oct.	YANNEY, BENJAMIN FRANKLIN, Professor of Mathematics, Mount Union College, Alliance, Ohio.
1891,	May	YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Assistant Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. *5430 Washington Avenue.*
1902,	Feb.	YOUNG, JOHN WESLEY, Ph.B., M.A.; Assistant in Mathematics, Cornell University, Ithaca, N. Y. *100 Cook Street.*
1902,	Oct.	YOUNG, WILLIAM HENRY, M.A.; Member of the London Mathematical Society; Member of the Cambridge Philosophical Society; Member of the Deutsche Mathematiker-Vereinigung; Lecturer in Mathematics, Girton College, Cambridge, England. *Peterhouse.*
1893,	Mar.	YOWELL, EVERETT IRVING, M.Sc., C.E.; Computer at the Naval Observatory, Washington, D. C.
1891,	Apr.	ZIWET, ALEXANDER, C.E.; Editor of the *Bulletin of the American Mathematical Society;* Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.*

Number of members, January 1, 1903	400
Number of members, January 1, 1902	375
Members admitted during the year 1902	39
Members withdrawing during the year 1901	14
Number of life-members	23

CONSTITUTION.

Article I.

This Society shall be called the American Mathematical Society.

Article II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

Article III.

The officers of the Society shall be a President, two Vice-Presidents, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

Article IV.

The officers of the Society, the ex-Presidents, and twelve other members of the Society shall constitute a Council, which shall have general charge of the affairs of the Society.

Article V.

1. The officers of the Society and four other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The ex-Presidents of the Society shall be permanent members of the Council; the term of office otherwise shall, beginning with the Annual Meeting in 1900, be two years for the President, one year for other officers, and three years for other members of the Council, and until their successors shall be elected. After the Annual Meeting in 1900, for election as President shall be eligible those members of the Society who have served in the office of Vice-President and who are not holding office as President or Vice-President; and for the election as Vice-President shall be eligible those members of the Society not holding office as President or Vice-President. No elected member of the Council, having completed a term of three years, shall be reëlected until at least one year shall have intervened.

2. If the President of the Society die or resign before the expiration of his term of office, the Council may designate one of the Vice-Presidents to serve as Acting President until the next Annual Meeting, when a President shall be elected by the Society. Such vacancies as may exist at any time among the other offices may be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting

Article VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

BY-LAWS.

I.

The election of new members of the Society shall be by vote of the Council. Applications for admission shall be made by the applicant personally, on blanks provided by the Secretary, and shall be endorsed by two members of the Society. Such applications, being received at any meeting of the Council, shall be laid over for action at any subsequent meeting.

II.

1. Persons elected by the Council, as provided in By-Law I, shall be admitted to membership in the Society upon the payment, within sixty days of the date of their election, of an initiation fee of five dollars.

2. The annual dues shall be five dollars, payable on the 1st of January. Each new member shall pay in proportion to the unexpired fraction of the year, at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

3. On the payment of fifty dollars in one sum, exclusive of initiation fee, any member may become a life member and shall thereafter be exempt from all annual dues.

III.

The times and places of meetings of the Society shall be designated by the Council, but the Annual Meeting shall be held

on a date between the 26th and 31st of December, inclusive; and Regular Meetings shall be held on the last Saturday of February, April, and October, unless otherwise ordered by the Council. Notice of the time and place of each meeting shall be sent by the Secretary to all members of the Society.

IV.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each Sectional meeting of such members of the Society as may be present; and the Council shall have the right to withdraw such authorization.

V.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

VI.

1. The order of business at the meetings of the Society shall be as follows:

1. Reading of the minutes.
2. Recommendations and reports.
3. Elections.
4. Miscellaneous business.
5. Presentation and discussion of papers previously approved by the programme committee.

2. No question relative to administration shall be considered at any meeting except the Annual Meeting, without the recommendation of the Council.

VII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting at which his term of office expires.

VIII.

1. The President may convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

IX.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

X.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. The three members of the committee appointed in 1899 shall serve respectively until 1902, 1903, and 1904. In and after 1902, annually at the February meeting, the Council shall appoint one member to serve for three years. Members of the committee shall be eligible to reappointment. Vacancies in the committee shall be filled by the Council.

3. The editorial committee shall have power to elect one of its members as editor-in-chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor-in-chief, the Council shall designate one of the members of the committee to act as editor-in-chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

XI.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

ANNUAL REPORTS.

REPORT OF THE TREASURER FOR THE YEAR 1902.

Receipts.

Balance from 1901, cash	$1,247.92	
Balance from life membership fund	887.18	
		$2,135.10
Annual payments for 1900		70.00
Annual payments for 1901		255.00
Annual payments for 1902		1,315.00
Annual payments for 1903		40.00
Payments for fractional parts of 1901		1.25
Payments for fractional parts of 1902		81.76
Initiation fees for 1901		30.00
Initiation fees for 1902		145.00
Life membership fees		50.00
Sale of Reprints		122.17
Sale of Bulletin by the Secretary		87.40
Sale of Bulletin by The Macmillan Co		235.90
Contributions in support of the Transactions:		
Bryn Mawr College		100.00
Columbia University		100.00
Cornell University		100.00
The University of Chicago		100.00
Subscriptions to the Transactions ($3.75) for 1900		7.50
Subscriptions to the Transactions ($3.75) for 1901		26.25
Subscriptions to the Transactions ($3.75) for 1902		262.50
Subscriptions to the Transactions ($3.75) for 1903		7.50
Subscriptions to the Transactions ($4.50) for 1900		9.00
Subscriptions to the Transactions ($4.50) for 1902		27.00
Subscriptions to the Transactions ($4.50) for 1903		13.50
Subscriptions to the Transactions ($5.00) for 1902		50.00
Subscriptions to the Transactions ($5.00) for 1903		5.00
Sale of Transactions by the Secretary		4.75
Sale of Transactions by The Macmillan Company		125.86
Interest on deposit in Fifth Avenue Trust Company		37.58
Interest on deposit in Institution for Savings		29.10
Exchange		.33
		$5,574.45

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(Arranged alphabetically by authors, except in cases of compilations.)

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A HISTORICAL AND CRITICAL REVIEW OF MATHEMATICAL SCIENCE.

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1902,	Sept.	EDWARDS, GEORGE CUNNINGHAM, B.Ph.; Associate Professor of Mathematics, University of California, Berkeley, Cal.
1897,	Feb.	EIESLAND, JOHN, B.Ph., Ph.D. (Johns Hopkins); Professor of Mathematics, Thiel College, Greenville, Pa.
1894,	June	EIMBECK, WILLIAM; Assistant in the U. S. Coast and Geodetic Survey, Washington, D. C.
1900,	Dec.	EISENHART, LUTHER PFAHLER, B.A., Ph.D. (Johns Hopkins); Instructor in Mathematics, Princeton University, Princeton, N. J. *63 Little Hall.*
1898,	Feb.	*ELLIOTT, EDWIN BAILEY, M.A.; F.R.S.; Member of the London Mathematical Society; F.R.A.S.; Waynflete Professor of Pure Mathematics and Fellow of Magdalen College, Oxford, England. *4 Bardwell Road.*
1891,	May	ELY, ACHSAH MOUNT, B.A.; Professor of Mathematics, Vassar College, Poughkeepsie, N. Y.

Date of Admission.		
1896,	Nov.	EMCH, ARNOLD, M.Sc., Ph.D. (Kansas); Professor of Graphics and Mathematics, University of Colorado, Boulder, Col.
1898,	Apr.	ENGBERG, CARL CHRISTIAN, B.Sc., M.A., Ph.D. (Nebraska); Adjunct Professor of Mathematics, University of Nebraska, Lincoln, Neb.
1892,	Mar.	ENGLER, EDMUND ARTHUR, M.A., Ph.D., LL.D.; President of the Worcester Polytechnic Institute, Worcester, Mass. *11 Boynton Street.*
1903,	Oct.	ENGLISH, HARRY, B.A.; M.LL.; Director of Mathematics, Washington High Schools, Washington, D. C. *2907 P Street, N. W.*
1898,	Oct.	ESCOTT, EDWARD BRIND, M.Sc.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *718 Monroe Street.*
1901,	Dec.	ESTY, THOMAS CUSHING, M.A.; Professor of Mathematics, University of Rochester, Rochester, N. Y.
1891,	May	ESTY, WILLIAM COLE, LL.D.; Professor of Mathematics and Astronomy, Amherst College, Amherst, Mass.
1899,	Feb.	FAUGHT, JOHN BROOKIE, M.A., Ph.D.; Professor of Mathematics, Northern State Normal School, Marquette, Mich. *1312 Presque Isle Avenue.*
1903,	Apr.	FERRIN, WILLIAM NELSON, M.A., LL.D.; Vermont Professor of Mathematics and President, Pacific University, Forest Grove, Ore.
1901,	Feb.	FERRY, FREDERICK CARLOS, M.A., Ph.D. (Clark); Professor of Mathematics and Dean, Williams College, Williamstown, Mass.
1900,	June	FIELD, PETER, M.Sc., Ph.D. (Cornell); Instructor in Mathematics, University of Michigan, Ann Arbor, Mich.
1891,	May	FIELDS, JOHN CHARLES, Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Special Lecturer in Mathematics, University of Toronto, Toronto, Canada. *62 Sussex Avenue.*
1901,	Oct.	FINDLAY, WILLIAM, M.A., Ph.D. (Chicago); Tutor in Mathematics, Columbia University, New York, N. Y.
1891,	May	FINE, HENRY BURCHARD, M.A., Ph.D. (Leipsic); Professor of Mathematics, Priceton University, Princeton, N. J.

Date of Admission.

1891, June | FINKEL, BENJAMIN FRANKLIN, M.A., M.Sc.; Member of the London Mathematical Society; Editor of the *American Mathematical Monthly;* Professor of Mathematics and Physics, Drury College, Springfield, Mo., Special Fellow in Mathematics, University of Pennsylvania, Philadelphia, Pa. *204 St. Marks Square,* Philadelphia, Pa.

1899, Feb. | FISHBURNE, EDWARD BELL, JR., B.Sc., M.A.; President of the Hoge Memorial Military Academy, Blackstone, Va.

1891, Oct. | FISHER, GEORGE EGBERT, M.A., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

1895, Jan. | FISHER, IRVING, B.A., Ph.D. (Yale); Professor of Political Economy, Yale University, New Haven, Conn. *460 Prospect Street.*

1888, Nov. | FISKE, THOMAS SCOTT, M.A., Ph.D. (Columbia); Member of the London Mathematical Society; Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Columbia University, New York, N. Y.

1897, Feb. | FITCH, ANNIE LOUISE MACKINNON (MRS. EDWARD), M.Sc., Ph.D. Clinton, N. Y.

1901, Oct. | FITE, WILLIAM BENJAMIN, Ph.D. (Cornell); Instructor in Mathematics, Cornell University, Ithaca, N. Y. *119 Stewart Avenue.*

1894, Oct. | FLOWERS, ROBERT LEE, Graduate of the U. S. Naval Academy; Professor of Mathematics, Trinity College, Durham, N. C.

1900, Feb. | FOCKE, ANNE BOSWORTH, B.Sc., Ph.D. (Göttingen). *106 Cutler Street,* Cleveland, O.

1903, Dec. | FORBES, CHARLES SAVAGE, M.A.; Assistant in Mathematics, Columbia University, New York, N. Y. *133 East 29th Street.*

1900, Apr. | FORD, ROBERT DALE, M.Sc.; Professor of Mathematics, St. Lawrence University, Canton, N. Y.

1899, Aug. | *FORD, WALTER B., M.A.; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *99 Rue Notre Dame des Champs, Paris, France.*

Date of Admission.		
1899,	Dec.	FORSYTH, ANDREW RUSSELL, Sc.D. (Cambridge, Dublin Victoria), LL.D. (Glasgow); Math. D. (Christiania); F.R.S.; Hon. F.R.S.E.; Corresponding Associate of the Reale Instituto Lombardo; Member of the London Mathematical Society; Honorary Member of the Manchester Literary and Philosophical Society; Member of Cambridge Philosophical Society; F.R.A.S.; Sadlerian Professor of Pure Mathematics and Fellow of Trinity College, Cambridge University, Cambridge, England.
1893,	Dec.	FRANKLAND, FREDERICK WILLIAM, F.I.A.; Member of the Actuarial Society of America; Associate Actuary of the New York Life Insurance Company. *346 Broadway*, New York, N. Y.
1892,	Dec.	FRANKLIN, FABIAN, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society. *205 West Madison Street*, Baltimore, Md.
1903,	Feb.	FRAZER, FRANK DEAN, B.Sc., M.A.; Instructor in Mathematics, University of Oregon, Eugene, Ore.
1897,	Mar.	FREELAND, WILLIAM, B.A. *27 West 44th Street*, New York, N. Y.
1895,	Nov.	FRIZELL, ARTHUR BOWES, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *11 Sumner Street.*
1892,	Oct.	GABLE, GEORGE DANIEL, M.A., Ph.D.; Hunt Professor of Mathematics and Secretary of the Faculty, Parsons College, Fairfield, Iowa.
1899,	Oct.	GALE, ARTHUR SULLIVAN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Yale University, New Haven, Conn. *281 Willow Street.*
1899,	Aug.	GATES, FANNY COOK, M.L.; Associate Professor of Physics, The Woman's College, Baltimore, Md.
1903,	Dec.	GECKELER, OTTO THEODORE, B.A.; Assistant Professor of Mathematics, Georgia School of Technology, Atlanta, Ga.
1894,	Feb.	GENTRY, RUTH, Ph.B., Ph.D. (Bryn Mawr); Associate Principal and Head Teacher of Mathematics. Miss Gleim's School for Girls, Pittsburgh, Pa. *805 South Negley Avenue.*

Date of Admission.		
1897,	Dec.	GERMANN, GEORGE B., B.A., Ph.D. (Columbia); Principal of Public School No. 94, Brooklyn, N. Y.
1901,	Feb.	GERRANS, HENRY TRESAWNA, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Fellow and Tutor of Worcester College, Oxford, England.
1903,	Oct.	GIBSON, GEORGE ALEXANDER, M.A.; Honorary Member of the Edinburgh Mathematical Society; F.R.S.E.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics in the Glasgow and West of Scotland Technical College, Glasgow, Scotland. *183 Renfrew Street.*
1891,	Jan.	GILMAN, GEORGE HOUGHTON, M.A., LL.B., *41 Wall Street*, New York, N. Y.
1892,	June	GLAISHER, JAMES WHITBREAD LEE, M.A., Sc.D.; F.R.S.; F.R.A.S.; Editor of the *Messenger of Mathematics* and of the *Quarterly Journal of Pure and Applied Mathematics;* Fellow of Trinity College, Cambridge, England.
1891,	May	GLASHAN, JOHN CADENHEAD, LL.D.; Fellow of the Royal Society of Canada; Inspector of Public Schools, School Inspector's Office, Ottawa, Canada.
1896,	Nov.	GLOVER, JAMES WATERMAN, M.A., Ph.D. (Harvard); Correspondent of *L'Enseignement Mathématique;* Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *1312 Geddes Avenue.*
1897,	Oct.	GORE, JOHN KINSEY, M.A.; Member of the Actuarial Society of America; Actuary of the Prudential Insurance Company, Newark, N. J.
1902,	Feb.	GOULD, ALICE BACHE, B.A. *405 Marlborough Street*, Boston, Mass.
1903,	Oct.	GOULD, MARY FRANCIS, B.A.; Teacher of Mathematics, Dedham High School, Dedham, Mass.
1903,	Aug.	GRAHAM, WILLIAM JOSEPH, B.A.; Member of the Actuarial Society of America; Actuarial Department, Metropolitan Life Insurance Company, New York, N. Y.
1897,	May	GRANVILLE, WILLIAM ANTHONY, B.Ph., Ph.D. (Yale); Instructor in Mathematics, Yale University, New Haven, Conn. *118 Howe Street.*

Date of Admission.		
1891,	June	GREEN, RUFUS LOT, B.Sc., M.A.; Professor of Mathematics, Stanford University, Cal.
1897,	Oct.	*GREENHILL, ALFRED GEORGE, M.A.; F.R.S.; Member of the London Mathematical Society; Professor of Mathematics, Ordnance College, Woolwich, England.
1900,	June	GREENSTREET, WILLIAM JOHN, M.A.; Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; F.R.A.S.; Editor of the *Mathematical Gazette;* Headmaster of the Marling School, Stroud, England.
1901,	Oct.	GREENWOOD, GEORGE WILLIAM, B.A.; Professor of Mathematics and Astronomy, McKendree College, Lebanon, Ill.
1893,	Dec.	GRIFFITHS, IDA, B.A. *132 West 80th Street,* New York, N. Y.
1899,	Oct.	GROAT, BENJAMIN FELAND, B.Sc; Assistant Professor of Mathematics and Mechanics, School of Mines, University of Minnesota, Minneapolis, Minn.
1894,	June	GUMMERE, HENRY VOLKMAR, B.Sc., M.A.; Professor of Mathematics, Physics and Astronomy, Ursinus College, Collegeville, Montgomery County, Pa.
1902,	Feb.	GUNDERSEN, CARL, M.A., Ph.D. (Columbia); Professor of Mathematics, La Grange College, La Grange, Mo.
1894,	Aug.	HAGEN, JOHN GEORGE, S.J.; Member of the Deutsche Mathematiker-Vereinigung; Director of the Georgetown College Observatory, Washington, D. C. *Georgetown University.*
1902,	Dec.	HALL, ARTHUR GRAHAM, B.Sc., Ph.D. (Leipsic); Assistant Professor of Mathematics, University of Illinois, Urbana, Ill. *911 California Avenue.*
1891,	Nov.	HALL, ASAPH, JR., B.A., Ph.D. (Yale); Member of the Astronomische Gesellschaft, Professor of Astronomy and Director of the Observatory, University of Michigan, Ann Arbor, Mich.
1894,	Oct.	HALLETT, GEORGE HERVEY, M.A., Ph.D.; Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1891,	May	HALSTED, GEORGE BRUCE, M.A., Ph.D. (Johns Hopkins); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Member of the London Mathematical Society; Co-editor of *Le Matematiche;* Professor of Mathematics, Kenyon College, Gambier, Ohio.

Date of Admission.		
1899,	Aug.	HAMMERSLOUGH, CARRIE, M.A. *1215 Madison Avenue,* New York, N. Y.
1901,	Oct.	HANAWALT, FRANCIS WAYLAND, M.A.; Professor of Mathematics and Astronomy, Albion College, Albion, Mich.
1902,	Dec.	HANCOCK, EDWARD LEE, M.Sc.; Instructor in Applied Mechanics, Purdue University, Lafayette, Ind. *703 Owen Street.*
1895,	Apr.	HANCOCK, HARRIS, B.A., Ph.D. (Berlin), D.Sc. (Paris); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Cincinnati, Cincinnati, Ohio. *Auburn Hotel, Mount Auburn.*
1900,	Dec.	HANNA, ULYSSES S., M.A.; Assistant Professor of Mathematics, Indiana University, Bloomington, Ind. *828 Atwater Avenue.*
1894,	Feb.	*HARDCASTLE, FRANCES, Member of the London Mathematical Society. *14 Huntingdon Road,* Cambridge, England.
1902,	Apr.	HARDY, JAMES GRAHAM, M.A., Ph.D.; Assistant Professor of Mathematics, Williams College, Williamstown, Mass.
1891,	May	*HARKNESS, JAMES, M.A.; Professor of Mathematics, McGill University, Montreal, Canada.
1891,	Apr.	HART, JAMES NORRIS, C.E., M.Sc.; Professor of Mathematics and Astronomy, University of Maine, Orono, Me.
1899,	Dec.	HASKELL, MELLEN WOODMAN, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of California, Berkeley, Cal. *P. O. Box 3.*
1903,	Feb.	HASKINS, CHARLES NELSON, B.Sc., Ph.D. (Harvard); Instructor in Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *P. O. Box 764.*
1891,	May	HATHAWAY, ARTHUR STAFFORD, B.Sc., Professor of Mathematics, Rose Polytechnic Institute, Terre Haute, Ind. *2206 North 10th Street.*
1901,	Feb.	HAVILAND, EDWIN, JR., B.Sc., M.A.; Professor of Mathematics, Clarkson School of Technology, Potsdam, N. Y. *P. O. Box 253.*

Date of Admission.		
1898,	Aug.	HAWKES, HERBERT EDWIN, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, Yale University, New Haven, Conn. *20 Carmel Street.*
1894,	Aug.	HAY, GUSTAVUS, B.A., M.D. *383 Marlborough Street,* Boston, Mass.
1901,	Aug.	HEDRICK, EARLE RAYMOND, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Professor and Head of the Department of Mathematics, University of Missouri, Columbia, Mo. *302 South Ninth Street.*
1900,	Dec.	HEWES, LAURENCE ILSLEY, B.Sc., Ph.D. (Yale); Professor of Mathematics, Rhode Island College of Agriculture and Mechanic Arts, Kingston, R. I.
1892,	Dec.	HILL, GEORGE WILLIAM, Ph.D., Sc.D., LL.D., EX-PRESIDENT; Corresponding Member of the Paris Academy of Sciences; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Royal Astronomical Society. West Nyack, N. Y.
1895,	Nov.	HILL, JOHN ETHAN, Ph.D. (Clark).
1898,	Dec.	HIMOWICH, ADOLPH A., M.Sc., M.D. *130 Henry Street,* New York, N. Y.
1894,	Mar.	HITCHCOCK, FANNY R. M., Ph.D. Philadelphia, Pa. *4038 Walnut Street.*
1902,	Apr.	HODGKINS, HOWARD LINCOLN, M.A., Ph.D. (Columbian); Professor of Mathematics, Columbian University, Washington, D. C.
1895,	Feb.	HOLGATE, THOMAS FRANKLIN, M.A., Ph.D. (Clark); Professor of Applied Mathematics and Dean of the College of Liberal Arts, Northwestern University, Evanston, Ill. *617 Hamline Street.*
1889,	June	HOLLADAY, WALLER, B.Sc., C.E., M.E.; Emeritus Professor of Mathematics, Cooper Institute; Mathematician of the Equitable Life Assurance Society, *120 Broadway,* New York, N. Y.
1903,	Dec.	HOOK, EDWARD ALFRED, M.Sc., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y.
1902,	Dec.	HOSKINS, LEANDER MILLER, C.E., M.Sc.; Professor of Applied Mathematics, Stanford University, Palo Alto, Cal.

Date of Admission.		
1891,	May	HOWE, CHARLES SUMNER, M.Sc., Ph.D.; F.R.A.S.; Member of the Astronomical and Astrophysical Society of America; President of the Case School of Applied Science, Cleveland, Ohio.
1891,	May	HOWE, HERBERT ALONZO, M.A., Sc.D.; Member of the Astronomische Gesellschaft; Director of the Chamberlin Observatory of the University of Denver, University Park, Col.
1891,	May	HULBURT, LORRAIN SHERMAN, B.A., Ph.D. (Johns Hopkins); Collegiate Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1901,	Oct.	HUNTINGTON, EDWARD VERMILYE, M.A., Ph.D. (Strassburg); Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Annals of Mathematics;* Instructor in Mathematics, Harvard University, Cambridge, Mass. *35 Fairfax Hall.*
1891,	Apr.	HUSSEY, WILLIAM J., B.Sc.; Astronomer in the Lick Observatory, Mt. Hamilton, Cal.
1896,	Nov.	HUTCHINSON, JOHN IRWIN, B.A., Ph.D. (Chicago); Associate Editor of the *Transactions of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1891,	May	HYDE, EDWARD WYLLYS, C.E. *814 Lincoln Avenue, Station D,* Cincinnati, Ohio.
1891,	June	IRELAND, OSCAR BROWN, M.A.; Member of the Actuarial Society of America; Actuary of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 1608.*
1902,	Apr.	IVEY, J. N., M.A., Ph.D. (Berlin); Instructor in Mathematics, Tulane University, New Orleans, La. *1419 St. Andrew Street.*
1901,	Dec.	JACKSON, LAMBERT LINCOLN, M.A.; Teachers College, Columbia University, New York, N. Y. *417 West 118th Street.*
1892,	Jan.	JACOBUS, DAVID S., M.E.; Professor of Experimental Engineering, Stevens Institute of Technology, Hoboken, N. J.
1888,	Nov.	JACOBY, HAROLD, Ph.D. (Columbia); Member of the Astronomische Gesellschaft; F.R.A.S.; Adjunct Professor of Astronomy, Columbia University, New York, N. Y. *333 West 76th Street.*

Date of Admission,		
1893,	Feb.	JAMES, JOHN NELSON, B.A. Halle, Germany. *Karlstrasse* 23_1.
1897,	Apr.	JOFFE, S. A., M.Sc.; Mutual Life Insurance Company of New York. *32 Nassau Street*, New York, N. Y.
1891,	Mar.	JOHNSON, WILLIAM WOOLSEY, M.A.; Member of the London Mathematical Society; Professor of Mathematics, U. S. Naval Academy, Annapolis, Md.
1899,	Oct.	KASNER, EDWARD, M.A., Ph.D. (Columbia); Associate Editor of the *Transactions of the American Mathematical Society;* Tutor in Mathematics, Columbia University, New York, N. Y. *121 East 114th Street.*
1903,	Oct.	KELLOGG, OLIVER DIMON, M.A., Ph.D. (Göttingen); Instructor in Mathematics, John C. Green School of Science, Princeton University, Princeton, N. J. *151 Little Hall.*
1891,	Dec.	KENNELLY, A. E., D.Sc.; F.R.A.S. Harvard University, Cambridge, Mass.
1900,	Dec.	KENYON, ALFRED MONROE, M.A.; Professor of Mathematics, Purdue University, Lafayette, Ind. *103 Waldron Street*, West Lafayette.
1892,	Oct.	KERR, WILLIAM JASPER, D.Sc.; President of the Agricultural College of Utah, Logan, Utah.
1891,	Apr.	KERSHNER, JEFFERSON E., M.A., Ph.D. (Yale); Professor of Mathematics, Franklin and Marshall College, Lancaster, Pa. *337 West Walnut Street.*
1897,	Aug.	KEYSER, CASSIUS JACKSON, B.Sc., M.A., Ph.D. (Columbia); Adjunct Professor of Mathematics, Columbia University, New York, N. Y.
1891,	Dec.	KNISELY, ALEXANDER, B.Sc. Columbia City, Ind.
1903,	Apr.	KOCH, ERNEST HERMAN, JR., B.Sc.; Master in Pure and Applied Mathematics, MacKenzie School, Dobbs Ferry, N. Y.
1901,	Oct.	KUHN, HARRY WALDO, Ph.D. (Cornell); Assistant Professor of Mathematics, Ohio State University, Columbus, Ohio. *1462 Neil Avenue.*
1894,	Apr.	*LADUE, POMEROY, B.Sc.; Professor of Mathematics, New York University, New York, N. Y. *University Heights.*
1893,	Dec.	LAMBERT, PRESTON ALBERT, M.A.; Assistant Professor of Mathematics, Lehigh University, South Bethlehem, Pa. *215 South Center Street.*

Date of Admission.		
1897,	Jan.	LANDIS, WILLIAM WEIDMAN, M.A.; Professor of Mathematics, Dickinson College, Carlisle, Pa.
1898,	Apr.	LANZA, GAETANO, B.Sc., C. and M.E.; Professor of Theoretical and Applied Mechanics, in charge of the Department of Mechanical Engineering, Massachusetts Institute of Technology, Boston, Mass.
1897,	May	LAVES, KURT, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; Assistant Professor of Astronomy, University of Chicago, Chicago, Ill.
1889,	Dec.	LEGRAS, GUSTAVE, M.Sc.; Assistant Professor of Mathematics, College of the City of New York. *17 Lexington Avenue*, New York, N. Y.
1900,	Oct.	LEHMER, DERRICK NORMAN, M.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2612 Manoa Avenue.*
1903,	Aug.	LENNES, NELS JOHANN, M.Sc.; Instructor in Mathematics, John Marshall High School, Chicago, Ill. *946 Walnut Street.*
1892,	Feb.	LEUSCHNER, ARMIN OTTO, B.A., Ph.D. (Berlin), Sc.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Associate Professor of Astronomy and Geodesy, and Director of the Students' Observatory, University of California, Berkeley, Cal. *2333 Cedar Street.*
1891,	May	LEWIS, CHARLTON THOMAS, Ph.D. (New York); Member of the Actuarial Society of America. *34 Nassau Street*, New York, N. Y.
1894,	June	LING, GEORGE HERBERT, Ph.D. (Columbia); Tutor in Mathematics, Columbia University, New York, N. Y. *242 West 135th Street.*
1900,	Dec.	LITTLE, CHARLES NEWTON, B.A., Ph.D. (Yale); Professor of Civil Engineering, University of Idaho, Moscow, Id.
1900,	June	LOCKE, LESLIE LELAND, M.A.; *91 Quincy Street*, Brooklyn, N. Y.
1891,	June	LOUD, FRANK HERBERT, M.A., Ph.D. (Haverford); Professor of Mathematics, Colorado College, Colorado Springs, Col. *1203 North Tejon Street.*
1901,	Feb.	LOVE, AUGUSTUS EDWARD HOUGH, M.A., D.Sc. (Oxford); F.R.S.; Honorary Secretary of the London Mathematical Society; Sedleian Professor of Natural Philosophy, Oxford University, Oxford, England. *34 St. Margaret's Road.*

Date of Admission.		
1891,	Apr.	LOVE, JAMES LEE, M.A.; Assistant Professor of Mathematics and Secretary of the Lawrence Scientific School, Harvard University, Cambridge, Mass. *16 University Hall.*
1894,	Oct.	LOVETT, EDGAR ODELL, M.A., Ph.D. (Virginia, Leipsic); Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Princeton University, Princeton, N. J.
1896,	Nov.	*LUDLOW, HENRY HUNT, Graduate of the U. S. Military Academy; Major, U. S. Artillery. Agricultural College, Oktibbeha County, Miss.
1903,	Feb.	LUNN, ARTHUR C., M.A.; Member of the Astronomical and Astrophysical Society of America; Instructor in Mathematics, University of Chicago, Chicago, Ill.
1894,	Oct.	LYMAN, ELMER A., B.A., Professor of Mathematics and Principal of the Michigan State Normal College, Ypsilanti, Mich. *126 North Washington Street.*
1889,	Dec.	*MCCLINTOCK, EMORY, M.A., Ph.D., LL.D.; EX-PRESIDENT; F.I.A.; Member of the Actuarial Society of America; Member of the London Mathematical Society; Actuary of the Mutual Life Insurance Company of New York. *32 Nassau Street,* New York, N. Y.
1903,	Aug.	MCCORMACK, THOMAS J., LL.B., M.A.; Principal of High School, La Salle, Ill.
1902,	Apr.	MCDONALD, JOHN HECTOR, B.A., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal. *2532 Hillegass Avenue.*
1891,	May	MCDOUGALL, ALEXANDER HIRAM, B.A.; Mathematical Master of the Collegiate Institute, Ottawa, Canada. *286 Kent Street.*
1897,	Dec.	MCKAY, ALEXANDER CHARLES, B.A.; Professor of Mathematics and Dean in Arts, McMaster University, Toronto, Canada.
1895,	Nov.	MCKINNEY, THOMAS EMERY, M.A.; Professor of Mathematics and Astronomy, Marietta College, Marietta, O. *617 Wooster Street.*
1891,	Apr.	MCMAHON, JAMES, M.A.; Member of the London Mathematical Society; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *7 Central Avenue.*

Date of Admission.		
1891,	Apr.	McNeill, Malcolm, M.A., Ph.D.; Professor of Mathematics and Astronomy, Lake Forest College, Lake Forest, Ill.
1898,	Dec.	*Macaulay, Francis Sowerby, M.A., D.Sc. (London); Member of the London Mathematical Society; Associate Editor of the *Mathematical Gazette;* Mathematical Master, St. Paul's School, West Kensington, London, W., England.
1891,	May	Macfarlane, Alexander, M.A., D.Sc. (Edinburgh), LL.D.; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Lecturer on Mathematical Physics, Lehigh University, South Bethlehem, Pa. *Gowrie Grove, Chatham, Ontario, Canada.*
1897,	Dec.	Mackay, John Sturgeon, M.A., LL.D.; Fellow of the Royal Society of Edinburgh; Honorary Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Master in the Edinburgh Academy. *69 Northumberland Street,* Edinburgh, Scotland.
1888,	Nov.	Maclay, James, C.E., Ph.D. (Columbia); Adjunct Professor of Mathematics, Columbia University, New York, N. Y.
1897,	Jan.	Maddison, Isabel, B.Sc., Ph.D. (Bryn Mawr); Member of the London Mathematical Society; Secretary to the President and Reader in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.
1897,	Aug.	Maltbie, William Henry, M.A., Ph.D. (Johns Hopkins); Professor of Mathematics, The Woman's College, Baltimore, Md.
1900,	June	Manchester, James Eugene, B.Sc., D.Sc. (Tübingen); President of Vincennes University, Vincennes, Ind.
1891,	Nov.	Mann, Charles Riborg, M.A., Ph.D. (Berlin); Assistant Professor of Physics, University of Chicago, Chicago, Ill.
1891,	Nov.	Manning, Henry Parker, B.A., Ph.D. (Johns Hopkins); Assistant Professor of Pure Mathematics, Brown University, Providence, R. I.
1903,	Oct.	Manning, William Albert, M.A.; Instructor in Applied Mathematics, Stanford University, Cal.
1891,	June	Markley, Joseph Lybrand, M. A., Ph. D. (Harvard); Assistant Professor of Mathematics, University of Michigan, Ann Arbor, Mich, *1320 South University Avenue.*

Date of Admission.		
1891,	Apr.	MARTIN, ARTEMAS, M.A., Ph.D., LL.D; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Member of the Edinburgh Mathematical Society; U. S. Coast and Geodetic Survey, Washington, D. C. *915 N Street, N. W.*
1899,	Dec.	MARTIN, EMILIE NORTON, Ph.D. (Bryn Mawr). Mount Holyoke College, South Hadley, Mass.
1903,	Dec.	MARTIN, LOUIS ADOLPHE, JR., M.E., M.A.; Instructor in Mathematics and Mechanics, Stevens Institute, Hoboken, N. J. *824 Bloomfield Street.*
1893,	Feb.	MASCHKE, HEINRICH, Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Chicago, Chicago, Ill.
1903,	Oct.	MASON, CHARLES MAX, B.L., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1890,	May	MASON, JAMES WEIR, M.A.; Member of the Actuarial Society of America; Emeritus Professor of Pure Mathematics, College of the City of New York, New York, N. Y.
1892,	Mar.	MENDIZÁBAL-TAMBORREL JOAQUIN DE, M.A., D.Sc., Geographical and Military Engineer; Member of the London Mathematical Society; Member of the Société Mathématique de France; F.R.A.S.; Member of the Astronomische Gesellschaft; Captain of Engineer Corps. *Sociedad "Alzate," Palma No. 13,* Mexico, D. F., Mexico.
1903,	Oct.	*MERRILL, HELEN ABBOTT, B.A., Ph.D. (Yale); Associate Professor of Mathematics, Wellesley College, Wellesley, Mass.
1891,	Apr.	MERRIMAN, MANSFIELD, C.E., Ph.D.; Professor of Civil Engineering, Lehigh University, South Bethlehem, Pa.
1889,	June	MESSENGER, HIRAM JOHN, Lit.B., Ph.D.; Member of the Actuarial Society of America; Actuary of the Travelers Insurance Company, Hartford, Conn.
1891,	Oct.	*METZLER, WILLIAM H., B.A., Ph.D. (Clark); Fellow of the Royal Society of Edinburgh; Corresponding Fellow of the Royal Society of Canada; Member of

Date of Admission.		
		the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Francis H. Root Professor of Mathematics, Syracuse University, Syracuse, N. Y.
1891,	June	MILLER, BLOOMFIELD JACKSON; Member of the Actuarial Society of America; Mathematician of the Mutual Benefit Life Insurance Company. *752 Broad Street,* Newark, N. J.
1891,	May	MILLER, EPHRAIM, M.A., Ph.D.; Member of the Astronomical and Astrophysical Society of America; Professor of Mathematics and Astronomy, University of Kansas, Lawrence, Kan. *1244 Tennessee Street.*
1903,	Oct.	MILLER, ERNEST ALLEN, B.Sc., M.A.; Instructor in Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1898,	Apr.	*MILLER, GEORGE A., Ph.D.; Member of the London Mathematical Society; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Stanford University, Cal. *P. O. Box 783.*
1899,	Oct.	MILLER, JOHN ANTHONY, M.A., Ph.D. (Chicago); Professor of Mechanics and Astronomy, University of Indiana, Bloomington, Ind. *Escondite.*
1900,	Dec.	MILNE, EDWARD LAWRENCE, M.Sc.; Instructor in Mathematics, University of Illinois, Champaign, Ill. *307 West Hill Street.*
1900,	Dec.	MITCHELL, HENRY BEDINGER, E.E., M.A.; Tutor in Mathematics, Columbia University, New York, N. Y. *Linden Hill, Flushing.*
1891,	May	MOODY, WILLIAM ALBION, M.A.; Professor of Mathematics, Bowdoin College, Brunswick, Me. *60 Federal Street.*
1903,	Feb.	MOORE, CLARENCE LEMUEL ELISHA, B.Sc., M.A.; Assistant in Mathematics, Cornell University, Ithaca, N. Y. *114 Summit Avenue.*
1891,	May	MOORE, ELIAKIM HASTINGS, B.A., Ph.D. (Yale, Göttingen, honorary); EX-PRESIDENT; Member of the National Academy of Sciences; Member of the Circolo Matematico di Palermo; Member of the London Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Transactions of the American Mathematical Society;* Professor and Head of the Department of Mathematics, University of Chicago, Chicago, Ill. *5617 Washington Avenue.*

Date of Admission.		
1902,	Apr.	MORENO, HALCOTT C., M.A., Ph.D. (Clark); Instructor in Applied Mathematics, Stanford University, Palo Alto, Cal. *P. O. Box 92.*
1891,	May	MORLEY, FRANK, M.A., Sc.D. (Cambridge); Member of the London Mathematical Society; Editor of the *Bulletin of the American Mathematical Society;* Editor of the *American Journal of Mathematics;* Professor of Mathematics, Johns Hopkins University, Baltimore, Md.
1900,	Feb.	MOULTON, FOREST RAY, B.A. Ph.D. (Chicago); F.R.A.S.; Associate Editor of the *Journal of Geography;* Instructor in Astronomy, University of Chicago, Chicago, Ill.
1900,	Dec.	*MUKHOPÂDHYÂY, ASUTOSH, M.A., LL.D.; Member of the Société Mathématique de France; Member of the Edinburgh Mathematical Society; Member of the Circolo Matematico di Palermo; F.R.A.S.; Examiner in Mathematics and Member of the Syndicate, University of Calcutta; Professor of Mathematics at the Indian Association for the Cultivation of Science. *77 Russa Road North,* Bhowanipore, Calcutta, India.
1898,	Oct.	MULLEN, LORING BLANCHARD, Ph.D.; Instructor in Mathematics, Morris High School, New York, N. Y.
1890,	Dec.	MURRAY, DANIEL ALEXANDER, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, Dalhousie College, Halifax, Nova Scotia, Canada.
1903,	Aug.	NEIKIRK, LEWIS IRVING, M.Sc., Ph.D. (Yale); Senior Fellow in Mathematics, University of Pennsylvania, Philadelphia, Pa. *101 East Nyack Avenue,* Lansdowne, Pa.
1891,	June	NELSON, ALFRED BRIERLEY, M.A., M.D.; Professor of Mathematics, Centre College, Danville, Ky. *443 Lexington Street.*
1895,	Dec.	NEUFELD, JULIUS L., E.E.; Professor of Mathematics, Central High School, Philadelphia, Pa. *1905 Venango Street.*
1891,	Nov.	NEWCOMB, SIMON, D.Sc., Ph.D., LL.D., D.C.L.; EX-PRESIDENT; Member of the National Academy of Sciences; Foreign Member of the Royal Society of London; Foreign Associate of the Institute of France; Foreign Associate of the Royal Astronomical Society; President of the Astronomical and Astrophysical Society of America; Co-editor of the *American Journal*

Date of Admission.		
		of Mathematics; Associate Editor of *Science;* Emeritus Professor of Mathematics and Astronomy, Johns Hopkins University; Professor of Mathematics, U. S. Navy, retired. *1620 P Street,* Washington, D. C.
1895,	Oct.	NEWSON, HENRY BYRON, M.A., Ph.D.; Member of the Circolo Matematico di Palermo; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Kansas University Science Bulletin;* Associate Professor of Mathematics, University of Kansas, Lawrence, Kan.
1897,	Jan.	NEWSON, MARY WINSTON, B.A., Ph.D. (Göttingen). *1702 Massachusetts Street,* Lawrence, Kan.
1899,	Aug.	NICHOLS, THOMAS FLINT, B.A., Ph.D. (Clark); Assistant Professor of Mathematics, Hamilton College, Clinton, N. Y.
1900,	Dec.	NICHOLS, WALTER SMITH, M.A.; Member of the Actuarial Society of America; Editor of the *Insurance Monitor* and *Insurance Law Journal. 100 William Street,* New York, N. Y.
1891,	June	NICHOLSON, JAMES WILLIAM, M.A., LL.D.; Professor of Mathematics, Louisiana State University and Agricultural and Mechanical College, Baton Rouge, La. *901 Convention Street.*
1899,	Dec.	NOBLE, CHARLES ALBERT, B.Sc., Ph.D. (Göttingen); Assistant Professor of Mathematics, University of California, Berkeley, Cal. *2731 Durant Avenue.*
1891,	Dec.	OLDS, GEORGE DANIEL, M.A.; Professor of Mathematics, Amherst College, Amherst, Mass.
1891,	Apr.	OSBORNE, GEORGE ABBOTT, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1895,	Feb.	OSGOOD, WILLIAM FOGG, M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Harvard University, Cambridge, Mass. *60 Walker Street.*
1894,	Oct.	OSTERBERG, MAX, E.E., M.A. *11 Broadway,* New York, N. Y.
1900,	Dec.	PAGE, JAMES MORRIS, M.A., Ph.D. (Leipsic); Professor of Mathematics, University of Virginia, Charlottesville, Va.
1897,	May	PALMIÉ, ANNA HELENE, B.Ph.; Professor of Mathematics, College for Women, Western Reserve University, Cleveland, O. *2733 Euclid Avenue.*

Date of Admission.		
1894,	Mar.	PARTRIDGE, EDWARD ANSON, B.Sc., M.A., Ph.D.; Professor of Physics, Central Manual Training School, Philadelphia, Pa. *17th and Wood Streets.*
1896,	Dec.	PATTERSON, JAMES LAWSON, B.Ph., D.Sc. (Princeton); Head Master of Chestnut Hill Academy, Chestnut Hill, Philadelphia, Pa.
1891,	May	PEIRCE, BENJAMIN OSGOOD, Ph.D. (Leipsic); Hollis Professor of Mathematics and Natural Philosophy, Harvard University, Cambridge, Mass. *The Jefferson Physical Laboratory.*
1898,	Oct.	PEIRCE, JAMES MILLS, M.A.; Member of Deutsche Mathematiker-Vereinigung; Perkins Professor of Astronomy and Mathematics, Harvard University, Cambridge, Mass. *4 Kirkland Place.*
1898,	Oct.	PELL, ALEXANDER, Ph.D. (Johns Hopkins); Professor of Mathematics, University of South Dakota, Vermillion, S. D.
1893,	Oct.	PETTEGREW, DAVID LYMAN, General Special Agent of the Massachusetts Mutual Life Insurance Company, Springfield, Mass. *P. O. Box 75, Worcester, Mass.*
1892,	Oct.	PFISTER, JOSEPH CLEMENT, M.A.; Instructor in Mechanics, Columbia University, New York, N. Y.
1896,	Nov.	PHILLIPS, ANDREW WHEELER, M.A., Ph.D. (Yale); Professor of Mathematics and Dean of the Graduate School, Yale University, New Haven, Conn. *209 York Street.*
1903,	Aug.	PIERCE, ARCHIE BURTON, B.Sc., M.A., Ph.D. (Zürich); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, University of Michigan, Ann Arbor, Mich. *707 Church Street.*
1894,	Oct.	PIERPONT, JAMES, Ph.D. (Vienna); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Yale University, New Haven, Conn. *42 Mansfield Street.*
1889,	Dec.	PIERSON, ISRAEL CORIELL, M.A., Ph.D.; Member of the Actuarial Society of America; Actuary of the Washington Life Insurance Company of New York. *141 Broadway,* New York, N. Y.
1892,	Nov.	PLUMLEY, GARDNER LADD, Member of the Actuarial Society of America; Assistant Actuary of the Home Life Insurance Company. *256 Broadway,* New York, N. Y.

Date of Admission.

1890, Dec. POOR, CHARLES LANE, Ph.D. (Johns Hopkins); Member of the Astronomische Gesellschaft; F.R.A.S.; Editor of the *Annals of the New York Academy of Sciences;* Lecturer in Astronomy, Columbia University, New York, N. Y. *4 East 48th Street.*

1897, Feb. PORTER, MILTON BROCKETT, B.Sc., M.A., Ph.D. (Harvard); Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, University of Texas, Austin, Texas.

1892, May PRENTISS, ROBERT WOODWORTH, M.Sc.; Professor of Mathematics and Astronomy, Rutgers College, New Brunswick, N. J. *122 Bayard Street.*

1889, Dec. PUPIN, MICHAEL IDVORSKY, B.A., Ph.D. (Berlin); Professor of Electro-Mechanics, Columbia University, New York, N. Y.

1891, June PURYEAR, CHARLES, B.Sc., M.A., C.E.; Professor of Mathematics, Agricultural and Mechanical College of Texas, College Station, Texas.

1902, Apr. PUTNAM, THOMAS MILTON, M.Sc., Ph.D. (Chicago); Instructor in Mathematics, University of California, Berkeley, Cal.

1901, Oct. RABINOVITCH, I. EUCLID, Ph.D. (Johns Hopkins). *130 Henry Street,* New York, N. Y.

1900, Feb. RADELFINGER, FRANK GUSTAVE, B.Sc., LL.B.; Assistant Professor of Mathematics, Columbian University, Washington, D. C. *1431 Chapin Street.*

1903, Dec. RAGSDALE, VIRGINIA, B.A.; Teacher of Mathematics, Dr. Sachs' School for Girls, New York, N. Y. *116 West 59th Street.*

1894, Mar. RAND, JOHN HOLMES, M.A.; Professor of Mathematics, Bates College, Lewiston, Me. *28 Frye Street.*

1903, Dec. RASOR, S. EUGENE, B.Sc., M.A.; Instructor in Mathematics, Ohio State University, Columbus, Ohio.

1891, Dec. RAYSON, AMY, B.A.; Joint Principal of School for Girls, New York, N. Y. *176 West 75th Street.*

1901, Aug. REAVES, SAMUEL WATSON, B.Sc., B.A.; Assistant Professor of Mathematics, Clemson College, S. C.

1888, Nov. REES, JOHN KROM, M.A., M.E., Ph.D.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Director of the Observatory, Columbia University, New York, N. Y.

Date of Admission.		
1900,	Apr.	REID, LEGH WILBER, B.A., M.Sc., Ph.D. (Göttingen); Associate Professor of Mathematics, Haverford College, Haverford, Pa.
1903,	Feb.	REYNOLDS, FREDERICK GREGORY, LL.B., M.Sc.; Instructor in Mathematics, College of the City of New York, New York, N. Y. *17 Lexington Avenue.*
1893,	Apr.	RICE, CHARLES MOEN, B.A. Worcester, Mass. *P. O. Box 215.*
1899,	Aug.	*RICHMOND, HERBERT WILLIAM, M.A.; Fellow of the Cambridge Philosophical Society; Member of the London Mathematical Society; Fellow and Lecturer of King's College, and University Lecturer, Cambridge University, Cambridge, England.
1902,	Oct.	RIETZ, HENRY LEWIS, B.Sc., Ph.D. (Cornell); Instructor in Mathematics, University of Illinois, Urbana, Ill. *909 California Avenue.*
1903,	Apr.	RIGGS, NORMAN C., M.Sc.; Assistant Professor of Mathematics, Armour Institute of Technology, Chicago, Ill.
1891,	May	ROCKWOOD, CHARLES GREENE, JR., M.A., Ph.D. (Yale); Professor of Mathematics, Princeton University, Princeton, N. J. *34 Bayard Lane.*
1896,	Apr.	ROE, EDWARD DRAKE, JR., M.A., Ph.D. (Erlangen); Member of the Deutsche Mathematiker-Vereinigung; John Raymond French Professor of Mathematics, Syracuse University, Syracuse, N. Y. *105 Ostrander Avenue.*
1902,	Apr.	ROEVER, WILLIAM HENRY, B.Sc.; *64 Kirkland Street,* Cambridge, Mass.
1897,	Feb.	ROTHROCK, DAVID ANDREW, M.A., Ph.D. (Leipsic); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, University of Indiana, Bloomington, Ind.
1903,	Aug.	RUSK, WILLIAM JAMES, M.A.; Professor of Mathematics, Iowa College, Grinnell, Ia. *1022 Park Street.*
1898,	Aug.	SAFFORD, FREDERICK HOLLISTER, M.A., Ph.D. (Harvard); Instructor in Mathematics, University of Pennsylvania, Philadelphia, Pa. *College Hall.*
1897,	Dec.	SAUREL, PAUL LOUIS, B.Sc., D.Sc. (Bordeaux); Instructor in Mathematics, College of the City of New York. *17 Lexington Avenue,* New York, N. Y.
1891,	Nov.	SAYRE, HERBERT ARMISTEAD, B.E., Ph.D. (Johns Hopkins); Professor of Physics, University of Alabama, University, Ala.

Date of Admission.

1894, Mar. SCHLEGEL, VICTOR, Ph.D. (Leipsic); Member of the Société Mathématique de France; Member of the Circolo Matematico di Palermo; Professor of Mathematics, Königliche Höhere Machinenbauschule, Hagen, Germany. *Volmestrasse, 62.*

1892, Feb. *SCHMIEDEL, OSCAR, B.Sc., M.A. Bethany, W. Va.

1895, Mar. SCHMITT, COOPER DAVIS, M.A.; Professor of Mathematics, University of Tennessee, Knoxville, Tenn.

1900, Oct. SCHOTTENFELS, IDA MAY, M.Ph. *1230 Amsterdam Avenue,* New York, N. Y.

1892, Apr. SCHULTZE, ARTHUR, Ph.D.; High School of Commerce, New York, N. Y.

1893, Oct. SCHWATT, ISAAC J., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Assistant Professor of Mathematics, University of Pennsylvania, Philadelphia, Pa.

1891, May SCOTT, CHARLOTTE ANGAS, D.Sc. (London); Member of the London Mathematical Society; Member of the Edinburgh Mathematical Society; Member of the Deutsche Mathematiker-Vereinigung; Member of the Circolo Matematico di Palermo; Honorary Member of the Amsterdam Mathematical Society; Co-Editor of the *American Journal of Mathematics;* Professor of Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

1902, Oct. SCOTT, GEORGE HARVEY, M.A.; Professor of Mathematics and Astronomy, Yankton College, Yankton, S. D.

1889, June SEARLE, REV. GEORGE MARY, M.A., Ph.D. Catholic University, Washington, D. C.

1895, Aug. SEE, THOMAS JEFFERSON JACKSON, M.A., Ph.D. (Berlin); Member of the Astronomische Gesellschaft; F.R.A.S.; Member of the Société Mathématique de France; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, U. S. Navy, Washington, D. C. *Naval Observatory.*

1902, Feb. DE SEGUIER, JEAN ARMAND MARIE JOSEPH, D.Sc.; Member of the Société Mathématique de France. *56 Rue des Saints Pères,* Paris, France.

1899, Aug. SELLEW, GEORGE TUCKER, M.A., Ph.D.; Professor of Mathematics, Knox College, Galesburg, Ill.

1892, June SHACK, FERDINAND, B.Sc., M.A., LL.B. *56 Wall Street,* New York, N. Y.

1891, Apr. SHATTUCK, SAMUEL WALKER, B.Sc., M.A., C.E.; Professor of Mathematics, University of Illinois, Champaign, Ill.

Date of Admission.		
1894,	Mar.	SHAW, JAMES BYRNIE, M.Sc., D. Sc.; Professor of Mathematics, The James Milliken University, Decatur, Ohio. *351 West William Street.*
1899,	Oct.	SINGER, SIMON AUGUSTUS, B.A.; Professor of Mathematics, Capital University, Columbus, Ohio.
1899,	Aug.	SKINNER, ERNEST BROWN, B.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Wisconsin, Madison, Wisconsin. *414 Charter Street.*
1899,	Oct.	SLAUGHT, HERBERT ELLSWORTH, M.A., Ph.D. (Chicago); Assistant Professor of Mathematics, University of Chicago, Chicago, Ill.
1901,	Apr.	SLOCUM, STEPHEN ELMER, B.E., Ph.D. (Clark); Instructor in Applied Mathematics, University of Cincinnati, Cincinnati, Ohio.
1900,	Oct.	SMITH, BURKE, B.Sc., New York Telephone Company, *18 Cortlandt Street*, New York, N. Y.
1893,	Oct.	SMITH, DAVID EUGENE, M.Ph., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Professor of Mathematics, Teachers College, Columbia University, New York, N. Y.
1898,	Apr.	SMITH, EUGENE RANDOLPH, M.A.; Instructor in Mathematics, Montclair High School, Montclair, N. J. *79 Valley Road.*
1891,	May	SMITH, OTIS DAVID, M.A., LL.D.; Professor of Mathematics, Alabama Polytechnic Institute, Auburn, Ala.
1891,	Nov.	SMITH, PERCEY FRANKLYN, Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Professor of Mathematics, Sheffield Scientific School, Yale University, New Haven, Conn. *78 Pearl Street.*
1891,	Apr.	SMITH, WILLIAM BENJAMIN, M.A., Ph.D. (Göttingen); Professor of Mathematics, Tulane University, New Orleans, La.
1889,	Dec.	SNOOK, THOMAS EDWARD, M.E.; Architect and Engineer. *261 Broadway*, New York, N. Y.
1895,	Apr.	SNYDER, MONROE BENJAMIN, M.A.; Member of the Astronomische Gesellschaft; F.R.A.S.; Professor of Astronomy and Applied Mathematics and Head of the Department of Mathematics, Central High School, Philadelphia, Pa.; Director of the Philadelphia Observatory. *2402 North Broad Street.*

Date of Admission.		
1896,	Nov.	SNYDER, VIRGIL, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *204 University Avenue.*
1892,	May	SQUIER, GEORGE OWEN, Ph.D. (Johns Hopkins); Major, Signal Corps, U. S. Army; Signal Officer, Department of California, *Phelan Building*, San Francisco, Cal.
1888,	Nov.	STABLER, EDWARD LINCOLN, M.A., Ph.D. (Columbia); U. S. Leather Co., *26 Ferry Street*, New York, N. Y.
1894,	Nov.	STECKER, HENRY FREEMAN, M.Sc., Ph.D.; Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, State College, Pa. *Lock Box 305.*
1891,	Jan.	STEINMETZ, CHARLES PROTEUS, Electrician, General Electric Company, Schenectady, N. Y.
1891,	June	ST. JOHN, HOWELL WILLIAMS, Ph.B.; Member of the Actuarial Society of America; Corresponding Member of the Institut des Actuaires Français; Actuary of the Ætna Life Insurance Company, Hartford, Conn. *P. O. Box 913.*
1891,	May	STONE, ORMOND, M.A.; Editor of the *Annals of Mathematics;* Director of the Leander McCormick Observatory and Professor of Practical Astronomy, University of Virginia, Charlottesville, Va.
1897,	Feb.	STORY, WILLIAM EDWARD, B.A., Ph.D. (Leipsic); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.
1902,	Apr.	STRINGHAM, IRVING, B.A., Ph.D. (Johns Hopkins); Professor of Mathematics, University of California, Berkeley, Cal. *The Owl's Nest, Prospect Avenue.*
1903,	Feb.	STROMQUIST, CARL EBEN, B.Sc., Ph.D. (Yale); Instructor in Mathematics, John C. Green School of Science, Princeton University, Princeton, N. J.
1895,	Dec.	STRONG, WENDELL MELVILLE, LL.B., M.A., Ph.D. (Yale); Member of the Actuarial Society of America. Mutual Life Insurance Company of New York. *32 Nassau Street.*
1903,	Apr.	SWARTZEL, KARL DALE, M.Sc.; Ohio State University, Columbus, Ohio.
1891,	May	*TABER, HENRY, B.Ph., Ph.D. (Johns Hopkins); Member of the London Mathematical Society; Professor of Mathematics, Clark University, Worcester, Mass.

Date of Admission.		
1900,	Dec.	TALIAFERRO, THOMAS HARDY, C.E., Ph.D. (Johns Hopkins); President, University of Florida, Lake City, Fla.
1901,	Oct.	TALLMAN, WILLIAM DUANE, B.Sc.; Professor of Mathematics, Montana State College of Agriculture and Mechanic Arts, Bozeman, Mon. *726 Third Avenue South.*
1896,	Nov.	*TANNER, JOHN HENRY, B.Sc., Ph.D.; Assistant Professor of Mathematics, Cornell University, Ithaca, N. Y. *Cornell Heights.*
1889,	Dec.	TATLOCK, JOHN, M.A.; F.R.A.S.; Associate Actuary of the Mutual Life Insurance Company of New York, New York, N. Y. *32 Nassau Street.*
1903,	Oct.	TAYLOR, EDSON HOMER, B.Sc.; Teacher of Mathematics Eastern Illinois State Normal School, Charleston, Ill.
1891,	Apr.	TAYLOR, JAMES MORFORD, M.A., LL.D.; Professor of Mathematics, Colgate University, Hamilton, N. Y.
1903,	Feb.	TAYLOR, WILLIAM ERASTUS, M.Ph.; Ph.D. (Syracuse); Associate Professor of Mathematics, Syracuse University, Syracuse, N. Y. *722 Irving Avenue.*
1899,	Oct.	THOMPSON, EDWARD PAYSON, M.A.; Professor of Mathematics and Astronomy, Miami University, Oxford, Ohio.
1891,	Apr.	*THOMPSON, HENRY DALLAS, M.A., D.Sc., Ph.D.; Professor of Mathematics, Princeton University, Princeton, N. J. *11 Morven Street.*
1897,	Jan.	THORNBURG, CHARLES LEWIS, B.Sc., C.E., Ph.D.; Professor of Mathematics and Astronomy, Lehigh University, South Bethlehem, Pa. *308 Packer Avenue.*
1901,	Oct.	TORY, HENRY M., M.A., D.Sc.; Associate Professor of Mathematics, McGill University, Montreal, Canada.
1902,	Apr.	TOWNLEY, SIDNEY DEAN, M.Sc., Sc.D. (Michigan); Observer in charge of the International Latitude Observatory, Ukiah, Cal.
1895,	Nov.	TOWNSEND, EDGAR JEROME, Ph.D. (Göttingen); Associate Professor of Mathematics, University of Illinois, Champaign, Ill. *510 John Street.*
1903,	Aug.	TRUEBLOOD, MARY ESTHER, M.Ph.; Instructor in Mathematics, Mount Holyoke College, South Hadley, Mass. *6 Maple Street,* Springfield, Mass.
1893,	Nov.	TURRELL, ISAAC HODGES, Cincinnati, O. *1503 Chase Avenue, North Side.*

Date of Admission.		
1894,	Aug.	TYLER, HARRY WALTER, B.Sc., Ph.D. (Erlangen); Professor of Mathematics and Secretary of the Faculty, Massachusetts Institute of Technology, Boston, Mass.
1897,	Dec.	UNDERHILL, MARY, M.Sc. *132½ East 19th Street*, New York, N. Y.
1903,	Aug.	UPTON, CLIFFORD BREWSTER, B.A.; Instructor in Mathematics, Horace Mann High School, New York, N. Y.
1888,	Nov.	VAN AMRINGE, J. HOWARD, M.A., Ph.D. L.H.D., LL.D.; EX-PRESIDENT; Professor of Mathematics and Dean of Columbia College, Columbia University, New York, N. Y. *The Glenmore, 859 Seventh Avenue.*
1903,	Oct.	VAN BENSCHOTEN, ANNA LAVINIA, M.Sc.; Professor of Mathematics, Wells College, Aurora, N. Y.
1902,	Feb.	VAN DER HEYDEN, ALEXANDER FREDERICK, M.A.; Fellow of the University of Durham; Member of the Mathematical Association; Mathematical Master, Middlesbrough High School, Middlesbrough, England. *3 St. John's Terrace.*
1902,	Oct.	VAN DER VRIES, JOHN N., M.A., Ph.D. (Clark); Associate Professor of Mathematics, University of Kansas, Lawrence, Kansas. *1136 Tennessee Street.*
1903,	Feb.	VAN ORSTRAND, CHARLES EDWIN, M.Sc.; U. S. Geological Survey, Washington, D. C.
1891,	June	VAN VELZER, CHARLES AMBROSE, B.Sc., Ph.D.; Member of the London Mathematical Society; Professor of Mathematics, University of Wisconsin, Madison, Wis. *134 West Gorham Street.*
1893,	Apr.	VAN VLECK, EDWARD BURR, M.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Professor of Mathematics, Wesleyan University, Middletown, Conn.
1891,	Apr.	VAN VLECK, JOHN MONROE, M.A., LL.D.; Member of the Astronomische Gesellschaft; Professor of Mathematics and Astronomy, Wesleyan University, Middletown, Conn.
1900,	June	VAUGHN, WILLIAM JAMES, M.A., LL.D.; Professor of Mathematics and Astronomy, Vanderbilt University, Nashville, Tenn.
1903,	Aug.	VEBLEN, OSWALD, B.A., Ph.D. (Chicago); Associate in Mathematics, University of Chicago, Chicago, Ill.

Date of Admission.		
1900,	Dec.	VIVIAN ROXANA HAYWARD, B.A., Ph.D. (Pennsylvania); Instructor in Mathematics, Wellesley College, Wellesley, Mass. *106 Gordon Avenue, Hyde Park, Mass.*
1891,	Oct.	WAIT, LUCIEN AUGUSTUS, B.A.; Professor of Mathematics, Cornell University, Ithaca, N. Y. *35 East Avenue.*
1891,	Apr.	WALDO, CLARENCE ABIATHAR, M.A., Ph.D.; Head Professor of Mathematics, Purdue University, Lafayette, Ind. *113 South Ninth Street.*
1898,	Dec.	WALKER, BUZZ M., M.Sc.; Professor of Mathematics, Mississippi Agricultural and Mechanical College, Agricultural College, Miss.
1894,	Feb.	WALKER, LON CAIN, M.A.; Professor of Mathematics, Colorado School of Mines, Golden, Colo.
1898,	Apr.	WASHBURNE, ALVA COURTENAY, Member of the Actuarial Society of America; Actuarial Division, Metropolitan Life Insurance Company. *1 Madison Avenue,* New York, N. Y.
1902,	Apr.	WEBB, HARRY EMMETT, B.A.; Instructor in Mathematics and Science, Stevens School, Hoboken, N. J. *Burling Terrace,* Summit, N. J.
1891,	Oct.	WEBB, JOHN BURKITT, C.E.; Professor of Mathematics and Mechanics, Stevens Institute of Technology, Hoboken, N. J.
1891,	May	WEBSTER, ARTHUR GORDON, B.A., Ph.D. (Berlin); Member of the Deutsche Mathematiker-Vereinigung; Professor of Physics, Clark University, Worcester, Mass.
1891,	June	WEEKS, RUFUS WELLS, Member of the Actuarial Society of America; Second Vice-President and Chief Actuary of the New York Life Insurance Company. *346 Broadway,* New York, N. Y.
1892,	Feb.	WELD, LAENAS GIFFORD, B.Sc., M.A.; Professor of Mathematics and Astronomy and Dean of the Graduate College, State University of Iowa, Iowa City, Ia.
1891,	Apr.	WELLS, WEBSTER, B.Sc.; Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass.
1891,	May	WENTWORTH, GEORGE ALBERT, M.A. Exeter, N. H.
1896,	Sept.	WENTZ, ESTELLA KATE, M.Sc.; Instructor in Mathematics, Manual Training High School, Indianapolis, Ind.
1897,	Feb.	WERNICKE, AUGUST LUDWIG PAUL; Professor of Modern Languages, State College of Kentucky, Lexington. Ky. *411 South Limestone Street.*

Date of Admission.		
1897,	Dec.	*WESTERN, ALFRED EDWARD, M.A.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society. *36 Lancaster Gate*, London, W., England.
1902,	Dec.	WESTFALL, W. D. A., B.A.; Instructor in Mathematics, Yale University, New Haven, Conn. *43 Hotchkiss Street.*
1898,	Aug.	WESTLUND, JACOB, Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Professor of Mathematics, Purdue University, Lafayette, Ind. *222 Main Street, West Lafayette.*
1892,	Nov.	WHITE, HENRY SEELY, B.A., Ph.D. (Göttingen); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Noyes Professor of Pure Mathematics, Northwestern University, Evanston, Ill. *619 University Place.*
1902,	Dec.	WHITE, WILLIAM FRANK, M.A., B.D.; Head of the Department of Mathematics, State Normal School, New Paltz, N. Y. *2720 West 37th Avenue*, Denver, Colo.
1902,	Apr.	WHITNEY, ALBERT WURTS, B.A.; Instructor in Mathematics, University of California, Berkeley, Cal. *2630 Haste Street.*
1897,	Dec.	*WHITTAKER, EDMUND TAYLOR, M.A.; Member of the London Mathematical Society; Secretary of the Royal Astronomical Society; Fellow and Lecturer of Trinity College, Cambridge, England.
1897,	Feb.	WHITTEMORE, JAMES KELSEY, M.A.; Instructor in Mathematics, Harvard University, Cambridge, Mass. *16 Claverly Hall.*
1899,	Feb.	WILCZYNSKI, ERNST JULIUS, Ph.D. (Berlin); Assistant Professor of Mathematics, University of California, Berkeley, Cal.; Research Assistant of the Carnegie Institution. *25 Bergstrasse, Hamburg, Germany.*
1892,	May	WILLARD, JOSEPH MOODY, B.A.; Professor of Mathematics, Pennsylvania State College, State College, Center Co., Pa.
1895,	May	WILLIAMS, CLARKE BENEDICT, M.A.; Olney Professor of Mathematics, Kalamazoo College, Kalamazoo, Mich. *516 West South Street.*
1892,	May	WILLIAMS, ELLA CORNELIA, M.A. *133 West 56th Street*, New York, N. Y.

Date of Admission.		
1903,	Aug.	WILLIAMS, ROLAND HUGH, B.Sc.; Teacher of Mathematics, Horace Mann School, New York, N. Y.
1898,	Apr.	WILLIAMS, WILLIAM HILL, M.A.; Professor of Mathematics, Wisconsin State Normal School, Platteville, Wis.
1891,	May	WILLSON, FREDERICK NEWTON, M.A., C.E.; Professor of Descriptive Geometry, Stereotomy, and Technical Drawing, John C. Green School of Science, Princeton University, Princeton, N. J. *P. O. Box 63.*
1901,	Oct.	WILSON, ALBERT HARRIS, M.Sc.; Instructor in Mathematics, Princeton University, Princeton, N. J. *Grossefuhr 24, Greifswald, Germany.*
1899,	Dec.	WILSON, EDWIN BIDWELL, B.A., Ph.D. (Yale); Member of the Deutsche Mathematiker-Vereinigung; Associate Editor of the *Transactions of the American Mathematical Society;* Instructor in Mathematics, Yale University, New Haven, Conn.
1900,	Dec.	WILSON, NORMAN RICHARD, M.A.; Lecturer in Mathematics, Wesley College, University of Manitoba, Winnipeg, Canada.
1903,	Oct.	WILSON, ROBERT EDWARD, B.Ph., M.A.; Instructor in Mathematics, Northwestern University, Evanston, Ill. *Nikolausbergerweg 49, Göttingen, Germany.*
1899,	Dec.	WOOD, RUTH GOULDING, B.Sc., Ph.D. (Yale); Instructor in Mathematics, Smith College, Northampton, Mass. *8 Washington Avenue.*
1895,	Oct.	WOODS, FREDERICK S., M.A., Ph.D. (Göttingen); Editor of the *Annals of Mathematics;* Associate Professor of Mathematics, Massachusetts Institute of Technology, Boston, Mass. *21 Church Street, Newton, Mass.*
1891,	May	WOODWARD, ROBERT SIMPSON, C.E., Ph.D. (Michigan); EX-PRESIDENT; Member of the National Academy of Sciences; Associate Editor of *Science;* Professor of Mechanics and Mathematical Physics and Dean of the School of Pure Science, Columbia University, New York, N. Y.
1891,	May	WORTHEN, THOMAS WILSON DORR, M.A.; Professor of Mathematics, Dartmouth College, Hanover, N. H.
1903,	Dec.	WRIGHT, JOSEPH EDMUND, B.A.; Member of the London Mathematical Society; Fellow of Trinity College, Cambridge, England; Associate in Mathematics, Bryn Mawr College, Bryn Mawr, Pa.

Date of Admission.		
1898,	Oct.	WRIGHT, WALTER CHANNING, Member of the Actuarial Society of America; Consulting Life Insurance Actuary. *45 Milk Street, Room 77*, Boston, Mass.
1902,	Oct.	YANNEY, BENJAMIN FRANKLIN, Professor of Mathematics, Mount Union College, Alliance, Ohio.
1903,	Dec.	YOUNG, ARCHER EVERETT, B.A., Ph.D. (Princeton); Instructor in Mathematics, Purdue University, Lafayette, Ind. *712 South Street.*
1891,	May	YOUNG, JACOB WILLIAM ALBERT, M.A., Ph.D. (Clark); Assistant Professor of the Pedagogy of Mathematics, University of Chicago, Chicago, Ill. *5430 Washington Avenue.*
1902,	Feb.	YOUNG, JOHN WESLEY, M.A., Ph.D. (Cornell); Member of the Deutsche Mathematiker-Vereinigung; Instructor in Mathematics, Northwestern University, Evanston, Ill. *1302 Hinman Avenue.*
1902,	Oct.	YOUNG, WILLIAM HENRY, M.A.; Sc.D.; Member of the London Mathematical Society; Fellow of the Cambridge Philosophical Society; Membre of the Deutsche Mathematiker-Vereinigung; Lecturer in Mathematics, Girton College, Cambridge, England. *Peterhouse.*
1893,	Mar.	YOWELL, EVERETT IRVING, M.Sc., C.E.; Computer at the Naval Observatory, Washington, D. C.
1891,	Apr.	ZIWET, ALEXANDER, C.E.; Member of the Deutsche Mathematiker-Vereinigung; Editor of the *Bulletin of the American Mathematical Society;* Junior Professor of Mathematics, University of Michigan, Ann Arbor, Mich. *644 South Ingalls Street.*

Number of members, January 1, 1904	455
Number of members, January 1, 1903	401
Members admitted during the year 1903	59
Members withdrawing during the year 1903	5
Number of life-members	24

CONSTITUTION.

Article I.

This Society shall be called the American Mathematical Society.

Article II.

The object of the Society shall be to encourage and maintain an active interest in mathematical science.

Article III.

The officers of the Society shall be a President, two Vice-Presidents, a Secretary, a Treasurer, a Librarian, and a Committee of Publication to consist of three members who at the same time may hold individually any of the other offices.

Article IV.

The officers of the Society, the ex-Presidents, and twelve other members of the Society shall constitute a Council, which shall have general charge of the affairs of the Society.

Article V.

1. The officers of the Society and four other members of the Council shall be elected by ballot at the Annual Meeting of each year. An official ballot shall be sent to each member at least one month prior to the Annual Meeting, and such ballots, if returned to the Secretary in envelopes bearing the names of the voters, shall be counted at the Annual Meeting. Each such ballot shall contain a name proposed by the Council for each vacancy, with blank spaces in which the voter may substitute other names. A majority of all votes cast in person or by mail shall be necessary to election. In case of failure to secure a majority for any office, the members present at the Annual Meeting shall choose by ballot between the two having the highest number of votes. The ex-Presidents of the Society shall be permanent members of the Council; the term of office otherwise shall, beginning with the Annual Meeting in 1900, be two years for the President, one year for other officers, and three years for other members of the Council, and until their successors shall be elected. After the Annual Meeting in 1900, for election as President shall be eligible those members of the Society who have served in the office of Vice-President and who are not holding office as President or Vice-President; and for election as Vice-President shall be eligible those members of the Society not holding office as President or Vice-President. No elected member of the Council, having completed a term of three years, shall be reëlected until at least one year shall have intervened.

2. If the President of the Society die or resign before the expiration of his term of office, the Council may designate one of the Vice-Presidents to serve as Acting President until the next Annual Meeting, when a President shall be elected by the Society. Such vacancies as may exist at any time among the other offices may be filled by the Council. If any elected member of the Council die or resign more than one year before the expiration of his term, the vacancy for the unexpired term shall be filled by the Society at the next Annual Meeting.

Article VI.

This Constitution shall not be amended unless notice of the proposed amendment be sent by mail to every member of the Society at least four weeks in advance of the meeting at which such amendment is to be considered; and such amendment in order to be adopted must receive two-thirds of the votes cast in person and by mail.

BY-LAWS.

I.

The election of new members of the Society shall be by vote of the Council. Applications for admission shall be made by the applicant personally, on blanks provided by the Secretary, and shall be endorsed by two members of the Society. Such applications, being received at any meeting of the Council, shall be laid over for action at any subsequent meeting.

II.

1. Persons elected by the Council, as provided in By-Law I, shall be admitted to membership in the Society upon the payment, within sixty days of the date of their election, of an initiation fee of five dollars.

2. The annual dues shall be five dollars, payable on the 1st of January. Each new member shall pay in proportion to the unexpired fraction of the year at the time of his election. Should the annual dues of any member remain unpaid beyond a reasonable time, the Council shall remove his name from the list of members, after due notice.

3. On the payment of fifty dollars in one sum, exclusive of initiation fee, any member may become a life member and shall thereafter be exempt from all annual dues.

III.

The times and places of meetings of the Society shall be designated by the Council, but the Annual Meeting shall be held

on a date between the 26th and 31st of December, inclusive; and Regular Meetings shall be held on the last Saturday of February, April, and October, unless otherwise ordered by the Council. Notice of the time and place of each meeting shall be sent by the Secretary to all members of the Society.

IV.

Whenever it shall appear to the Council that a sufficient number of members of the Society are desirous of conducting in any locality periodic meetings for the reading and discussion of mathematical papers, the Council may authorize the formation of a Section to be composed at each Sectional meeting of such members of the Society as may be present; and the Council shall have the right to withdraw such authorization.

V.

Papers intended for presentation at any meeting or sectional meeting of the Society shall be passed upon in advance of the meeting by a programme committee appointed by or under the authority of the Council; and only such papers shall be presented as shall have been approved by such committee. Papers in form unsuitable for publication, if accepted for presentation, shall be referred to on the programme as preliminary communications or reports.

VI.

1. The order of business at the meetings of the Society shall be as follows:
   1. Reading of the minutes.
   2. Recommendations and reports.
   3. Elections.
   4. Miscellaneous business.
   5. Presentation and discussion of papers previously approved by the programme committee.

2. No question relative to administration shall be considered at any meeting except the Annual Meeting without the recommendation of the Council.

VII.

It shall be the duty of each President to deliver an address before the Society at the Annual Meeting at which his term of office expires.

VIII.

1. The President may convoke the Council whenever the affairs of the Society require it.

2. A request in writing from two members of the Council shall render the convocation obligatory.

IX.

1. The Society shall publish a periodical of critical and historical nature, called the BULLETIN OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The BULLETIN shall be in charge of the Committee of Publication, which may associate with itself other members of the Society whose editorial assistance it may require.

X.

1. The Society shall publish a periodical which shall have for its object to make known, as widely as possible, the more important researches presented at the meetings of the Society. This periodical shall be called the TRANSACTIONS OF THE AMERICAN MATHEMATICAL SOCIETY.

2. The editorial management of the TRANSACTIONS shall be entrusted to a committee of three editors, to be appointed by the Council. The three members of the committee appointed in 1899 shall serve respectively until 1902, 1903, and 1904. In and after 1902, annually at the February meeting, the Council shall appoint one member to serve for three years. Members of the committee shall be eligible to reappointment. Vacancies in the committee shall be filled by the Council.

3. The editorial committee shall have power to elect one of its members as editor-in-chief; but if at any time the committee shall report to the Council that it has been unable to agree upon an editor-in-chief, the Council shall designate one of the members of the committee to act as editor-in-chief. The committee shall have power to associate with itself other members of the Society whose editorial assistance it may require.

4. The TRANSACTIONS shall not be distributed free to the members of the Society; but members of the Society shall have the right to subscribe to the TRANSACTIONS at three-fourths of the advertised price.

XI.

No by-law shall be enacted, amended or suspended, except by a two-thirds vote of the members present at a meeting of the Society, and upon the recommendation of the Council.

ANNUAL REPORTS.

REPORT OF THE TREASURER FOR THE YEAR 1903.

Receipts.

Balance from 1902	$1,655.82
Annual dues for 1900	15.00
Annual dues for 1901	75.00
Annual dues for 1902	220.00
Annual dues for 1903	1,405.00
Dues from new members for parts of the year	108.81
Annual dues for 1904	10.00
Initiation fees	245.00
Life membership fees	300.00
Sale of reprints	67.10
Sale of Bulletin by the Secretary	49.90
Sale of Bulletin by The Macmillan Company	347.80
Contributions in support of the Transactions:	
Bryn Mawr College	100.00
Columbia University	100.00
Cornell University	200.00
Harvard University	100.00
Haverford College	100.00
Northwestern University	100.00
Princeton University	100.00
University of California	100.00
University of Chicago	100.00
Yale University	100.00
Sale of Transactions to members	328.25
Sale of Transactions by The Macmillan Company	221.15
Sale of Transactions by the Secretary	8.00
Interest on deposit in Fifth Avenue Trust Company	28.02
Interest on deposit in Savings Bank	36.28
Exchange	.10
Colloquium fee	3.00
	$6,224.23

DISBURSEMENTS.

Expenses of the Secretary's Office		$ 302.72
Expenses of the Treasurer's Office		60.40
Expenses of the Library		34.38
Expenses of the Committee of Publication		20.55
Expenses of the Editorial Committee of the TRANSACTIONS		210.48
Publication of BULLETIN (ten numbers)		1,253.80
Publication of TRANSACTIONS (four numbers)		1,606.15
Annual Register		114.31
Expenses of the Chicago Section		39.50
Expenses of the San Francisco Section		6.00
Exchange		2.87
		$3,651.16
Balance in Fifth Avenue Trust Company	$1,256.18	
Outstanding checks	27.74	
	$1,228.44	
Balance in Savings Bank	$1,327.56	
Cash on hand	17.07	
		$2,573.07
		$6,224.23

The Life Membership Fund now amounts to $1,302.50, and is deposited in the Institution for the Savings of Merchants' Clerks, comprising most of the money referred to above as in the "Savings Bank."

WM. S. DENNETT,
Treasurer.

NEW YORK, December 23, 1903.

REPORT OF THE AUDITING COMMITTEE.

The Committee appointed by the American Mathematical Society to audit the accounts of the Treasurer beg to report as follows:

We have examined the statement of receipts and expenditures for the year extending from December 29, 1902, to December 23, 1903, and we find that there was a balance on December 29, 1902, of sixteen hun-

dred and fifty-five dollars and eighty-two cents ($1,655.82) and the receipts amounted to forty-five hundred and sixty-eight dollars and forty-one cents ($4,568.41), giving a total of sixty-two hundred and twenty-four dollars and twenty-three cents ($6,224.23). The expenditures amounted to thirty-six hundred and fifty-one dollars and sixteen cents ($3,651.16), leaving at this date a balance of twenty-five hundred and seventy-three dollars and seven cents ($2,573.07), of which twelve hundred and fifty-six dollars and eighteen cents ($1,256.18) is in the Fifth Avenue Trust Company, thirteen hundred and twenty-seven dollars and fifty-six cents ($1,327.56) in the Institution for the Savings of Merchants' Clerks, and seventeen dollars and seven cents ($17.07) is cash, subject to four outstanding checks amounting to twenty-seven dollars and seventy-four cents ($27.74).

GUSTAVE LEGRAS,
JOSEPH BOWDEN,
Auditing Committee.

NEW YORK, December 23, 1903.

REPORT OF THE LIBRARIAN FOR THE YEAR 1903.

The library has continued to increase at a satisfactory rate during the past year. Such a growth as that shown in the report for 1902 will not be possible again unless the library shall receive financial assistance, because the Society made as many exchanges of back volumes at that time as it seemed wise to make. For the increase of non-periodical works the library is dependent solely upon gifts, and several valuable additions have been made during the past year through the generosity of members of the Society.

The following table shows the growth of the library during the past two years:

	January 1, 1902.	January 1, 1903.	January 1 1904.
Volumes of periodicals	32	695	981
Volumes, non-periodical	89	248	354
Periodicals on exchange list	64	116	154

It should be again remarked that the library has only a relatively small number of the published works of its members, and very few of the country's earlier mathematical treatises. Gifts of mathematical works, of historic interest as well as of scientific importance, particularly of volumes to complete our sets of journals, will be welcome. If the library could, through the

interest of its members, maintain the growth of the past year, it would in a short time come to be of exceedingly great value to the Society.

DAVID EUGENE SMITH,
Librarian.

NEW YORK, December 24, 1903.

LIBRARY RULES.

1. Applications for books may be made in person, or by letter addressed to the AMERICAN MATHEMATICAL SOCIETY, 501 West 116th Street, New York. Members may, if they desire, apply in person directly to the superintendent of the loaning department of the Columbia University Library, where the Society's library is deposited. Books will be delivered directly to those applying in person, and will be sent to other applicants by express at the expense of the borrowers.

2. A book may be kept four weeks from the date of leaving the library, but the loan may be renewed from time to time by writing to the Society in advance of the day when the book is due.

3. Borrowers should return the books in person or by prepaid express.

CATALOGUE OF THE LIBRARY.

I. LIST OF JOURNALS TAKEN BY THE LIBRARY.

In case the Society has already any bound volumes, these are indicated in the list. Where there are no bound volumes indicated, the journal has recently been placed upon the exchange list, and only the current unbound numbers are in the library. The journals are listed alphabetically according to the places of publication.

AMSTERDAM.

Nieuw Archief voor Wiskunde, Ser. 1, Vols. 1–20; Ser. 2, Vols. 1–4.

Revue semestrielle des Publications mathématiques, Vols. 1–10; *Tables des Matières*, 1892–1902.

Wiskundige Opgaven met de Oplossingen, Vols. 1–8.

BALTIMORE.

American Journal of Mathematics, Vols. 1–25.

BERLIN.

Abhandlungen der königlichen Akademie der Wissenschaften, 1892–94, 1897, 1901.

Jahrbuch über die Fortschritte der Mathematik, Vols. 15–31.

Journal für die reine und angewandte Mathematik (Crelle), Vols. 96, 97, 125.

Sitzungsberichte der Berliner mathematischen Gesellschaft, Vol. 1.

Sitzungsberichte der königlichen Akademie der Wissenschaften, 1891–1902.

Unterrichtsblätter für Mathematik und Naturwissenschaften.

Veröffentlichungen d. K. Preus. Geodätischen Instituts, Vols. 1–2.

BOLOGNA.

Il Bolletino di Matematica, Vol. 1.

Memorie della R. Accademia delle Scienze, Ser. 5, Vol. 8.

Rendiconti della R. Accademia delle Scienze, New Series, Vol. 4.

BORDEAUX.

Mémoires de la Société des Sciences de Bordeaux, Ser. 4, Vols. 1–5; Ser. 5, Vols. 1–5; Ser. 6, Vol. 1.

Procès-verbaux de la Société des Sciences de Bordeaux, 1894–1902.

BOSTON.

Proceedings of the American Academy of Arts and Sciences, Vols. 26–38; *Memoirs*, Vol. 12.

Technology Quarterly, Vols. 4–15.

BRAY-SUR-SEINE.

Journal des Géomètres-Experts, Vols. 1, 2, 9, 10.

BRISBANE, QUEENSLAND.

Proceedings of the Royal Society, Vols. 15–16.

BRUSSELS.

Annales de la Société Scientifique, Vol. 26.

Annuaire de l'Académie Royale, Vol. 69.

Bulletin de Classe des Sciences de l'Académie Royale, 1902.

Mémoires couronnés et autre Mémoires de l'Académie Royale, Vols. 60, 61.

Mémoires couronnés et Mémoires des Savants étrangers, de l'Académie Royale, Vols. 58, 60.

BUCHAREST.

Gazeta Matematica, Vols. 1–8.

BUDAPEST.

Mathematische und naturwissenschaftliche Berichte aus Ungarn, Vols. 1–17.

BUENOS AIRES.

Anales de la Sociedad Cientifica Argentina, Vol. 55.

CAMBRIDGE, ENG.

Proceedings of the Cambridge Philosophical Society, Vols. 10–11.

Transactions of the Cambridge Philosophical Society, Vol. 17.

CAMBRIDGE, MASS.

Annals of Mathematics, Ser. 1, Vols. 1–12; Ser. 2, Vols. 1–4.

CHERBOURG.

Mémoires de la Société Nationale des Sciences naturelles et mathématiques de Cherbourg, Vols. 31–32.

CHICAGO.

The Astro-Physical Journal, Vols. 1–17.

The Open Court, Vols. 11–17.

The Monist, Vols. 1–7, 9–12.

School Science.

CHRISTIANIA.

Archiv for Mathematik og Naturvidenskab, Vols. 21–24.

Forhandlinger i Videnskabs-Selskabet i Christiania, 1899.

Skrifter i Videnskabs-Selskabet i Christiania, 1899–1902.

CITTÀ DI CASTELLO.

Le Matematiche pure ed applicate, Vol. 1.

COIMBRA.

Jornal de Sciencias mathematicas e astronomicas, Vols. 9–14.

COPENHAGEN.

Nyt Tidsskrift for Matematik, Ser. A, Vols. 11–13.

CRACOW.

Bulletin International de l'Academie des Sciences de Cracovie, 1901–1902.

Katalog, Literatury Naukowej Polskiej, Vol. 2.

DUBLIN.

Scientific Proceedings of the Royal Dublin Society, New Series, Vol. 9.

Scientific Transactions of the Royal Dublin Society, Ser. 1, Vols. 1–8.

EDINBURGH.

Proceedings of the Mathematical Society of Edinburgh, Vols. 1, 11–21.

Proceedings of the Royal Society of Edinburgh, Vols. 3–4, 9–12, 15–23.

Transactions of the Royal Society of Edinburgh, Vols. 37–39, 42.

ERLANGEN.

Sitzungsberichte der physicalisch-medicinischen Societät zu Erlangen, 1893–99.

FORT MONROE.

Journal of the United States Artillery, Vols. 1–19.

GLASGOW.

Proceedings of the Glasgow Philosophical Society, Vol. 30.

GHENT.

Mathesis, Ser. 2, Vols. 4–10; Ser. 3, Vols. 1–2.

GÖTTINGEN.

Nachrichten math.-phys. Klasse. 1892–1902.

Geschäftliche Mittheilungen, 1894–1902.

GRENOBLE.

Annales de la Faculté des Sciences de l'Université de Grenoble, Vols. 13–14.

HALIFAX.

Proceedings and Transactions of the Nova Scotia Institute of Sciences, Ser. 2, Vols. 1–2.

HAMBURG. See LEIPZIG.

ITHACA.

Bulletin of the American Physical Society, Vols. 1–2, Vol. 3, No. 1 (last).

Journal of Physical Chemistry, Vols. 1–6.

KASAN.

Bulletin de la Société physico-mathématique de Kasan, Vols. 1–5, 7–12.

KHARKOF.

Communications de la Société mathématique de Kharkov, Ser. 2, Vols. 5–7.

LAWRENCE.

Kansas University Science Bulletin, Vol. 1.

Kansas University Quarterly, Ser. A, Vols. 9–10.

LEGHORN.

Periodico di Matematica, Vols. 12–17.

Supplemento al Periodico di Matematica, Vols. 2–6.

LEIPZIG.

Archiv der Mathematik und Physik, Ser. 3, Vols. 1, 6.

Bibliotheca Mathematica, 1887–1902.

Jahresbericht der Deutschen Mathematiker-Vereinigung, Vols. 5–9; New Ser., Vols. 1–2. (2 sets.)

Mathematische Annalen, Vols. 41–43, 45–57.

Mittheilungen der mathematischen Gesellschaft in Hamburg.

Zeitschrift für Mathematik und Physik, Vols. 44–48.

Sächsische Gesellschaft der Wissenschaften, math.-phys. Classe; Abhandlungen, Vols. 25–27; *Berichte*, Vols. 45–52, 54.

Zeitschrift für mathematischen und naturwissenschaftlichen Unterricht, Vols. 23–25, 27–28.

LICK OBSERVATORY, MT. HAMILTON.

Lick Observatory Contributions, Vols. 3–6.

LIÉGE.

Mémoires de la Société Royale des Sciences de Liége, Ser. 2, Vols. 19–20; Ser. 3, Vols. 1–4.

LIMA.

Revista de Ciencias, Vols. 1–4.

LIVORNO. See LEGHORN.

LONDON.

Educational Times, 1897–1902.

Journal of the Institute of Actuaries, Vols. 35–37.

Philosophical Transactions of the Royal Society, Ser. A, Vols. 192–201.

Proceedings of the London Mathematical Society, Vols. 1–35; *Index*, Vols. 1–30.

Proceedings of the Royal Society, Vol. 62–71.

The Mathematical Gazette, Vol. 1.

Messenger of Mathematics, Vols. 24–32.

Quarterly Journal of Pure and Applied Mathematics, Vols. 31–33.

MADRID.

Archivo de matematicas, 1896–1897.

Memorias de la Real Academia de Ciencias, Vols. 14, 18, 20–21.

MANCHESTER.

Memoirs and Proceedings of the Manchester Literary Society, Vols. 37–47.

MARSEILLES.

Annales de la Faculté des Sciences de Marseilles, Vols. 11–12.

MEXICO.

Memorias y Rivista de la Sociedad Cientifica Antonio Alzate, Vols. 2–12, 14–17.

MILAN.

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